PREPARED FOR:

11300 Greenstone Avenue Santa Fe Springs, California 90670

Santa Fe Springs Fire Department

AST/INDUSTRIAL WASTEWATER UNIT CLOSURE REPORT AND

REMEDIAL ACTION PLAN **BLOOMFIELD II PROPERTY**

FORMER PLEGEL OIL COMPANY LEASE 12600 FLORENCE AVENUE

Santa Fe Springs SANTA FE SPRINGS, CALIFORNIA Fire Department Environmental Protection Division

APPROVED FOR THE FOLLOWING PROGRAMS CUPA Programe ☐ Industrial Waste UFC Article 80 Domestic Waste Only

Approved Not Required | Other >:+-

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SMP report for the Bloomfield

PREPARED BY:

Ninyo & Moore Geotechnical and Environmental Sciences Consultants 475 Goddard, Suite 200 Irvine, California 92618

> February 8, 2005 Project No. 205372005



February 8, 2005 Project No. 205372005

Mr. Tom Hall Santa Fe Springs Fire Department 11300 Greenstone Avenue Santa Fe Springs, California 90670

Subject:

AST/Industrial Wastewater Unit

Closure Report and Remedial Action Plan

Bloomfield II Property

Former Plegel Oil Company Lease

12600 Florence Avenue Santa Fe Springs, California

Dear Mr. Hall:

Ninyo & Moore has performed an Aboveground Storage Tank (AST)/Industrial Wastewater Unit Closure Report and Remedial Action Plan for the above-referenced property. The attached report presents our methodology, findings, conclusions, and recommendations regarding the environmental conditions at the site.

If you have any questions regarding this report, please contact the undersigned at your convenience.

NO. 6897

Sincerely,

NINYO & MOORE

Paul A. Roberts, P.G., R.E.A. I/II Senior Environmental Geologist

PAR/emp

Distribution: (2) Addressee

- (1) Mr. Peter Rooney, Bloomfield Partners II, LLC
- (1) Mr. Patrick Russell, Bloomfield Partners II, LLC
- (1) Pam Andes, Esq., Allen Matkins Leck Gamble & Mallory, LLP

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1. INTRODUCTION

Bloomfield Partners II, LLC, authorized Ninyo & Moore to perform aboveground storage tank (AST) and Industrial Wastewater Unit closure activities at the former Plegel Oil Company Lease property (referred to as the Plegel lease property or the site) located in the northwestern corner of the Bloomfield II Property in Santa Fe Springs, California (Figures 1 and 2). This report also presents a Remedial Action Plan (RAP) to mitigate the petroleum hydrocarbon and metal impacted soil discovered during these investigations. Work was completed in general accordance with the General Work Plan to Close Aboveground Storage Tanks and Industrial Wastewater Unit dated September 21, 2004, and the Addendum to the General Work Plan dated October 5, 2004. These documents were reviewed and approved by the Santa Fe Springs Fire Department (SFSFD). The Bloomfield II Property and site are currently being redeveloped for commercial purposes.

2. BACKGROUND

The site and Bloomfield II Property have been used as oil production from at least 1923 through the time of this report. Oil wells on the Bloomfield II Property have been reabandoned in preparation of the redevelopment of the property. The site was used by Plegel Oil Company for the production and storage of crude oil. Based on groundwater wells located on the Bloomfield II Property, groundwater has been measured at depths of approximately 95 feet below the ground surface (bgs).

The site currently contains an idle oil well (Hathaway Company "Baker" 27) and a decommissioned and abandoned oil well (Hathaway Company "Baker" 5). The site formerly contained three small ASTs (two containing crude oil and one empty), an older oil/water separator, a newer oil/water separator, two wastewater separators, and a clarifier (Figure 3). Crude oil was pumped from "Baker" 27 and piped to the newer oil/water separator, via underground and aboveground piping (Figure 3). The older oil/water separator was recently taken off line and replaced with the newer oil/water separator. Oil from the separator was pumped into the two ASTs for storage. The ASTs were relatively small, holding approximately 250 barrels of crude oil each (or approxi-

mately 10,500 gallons per AST). According to Mr. Wayne Plegel, owner of Plegel Oil Company, the empty AST was never used to store hazardous materials on site. Based on this information, four ASTs (designated T1 through T4 on Figure 3) were closed as part of the investigations described herein. The ASTs that were closed included the two crude oil tanks, the older oil/water separator, and the newer oil/water separator.

The wastewater generated from the pumping process was diverted through a three stage wastewater system that clarified the water before it was discharged to the city storm drain. Most of the piping associated with the wastewater system was discovered to be aboveground (Figure 3). The first stage of the wastewater system was a metal aboveground tank (referred to as the first stage wastewater separator or T6 on Figure 3). The second stage consists of a concrete lined, belowground "sump" (referred to as the second stage wastewater separator or T5 on Figure 3). During the investigations described herein, this "sump" was discovered to have actually been the cellar for "Baker" 5. The third stage of the wastewater treatment unit was the clarifier located north of the crude oil ASTs (referred to as T7 on Figure 3). Based on this information, the industrial wastewater unit that was closed included the first stage wastewater separator, the second stage wastewater separator, and the clarifier.

As part of the real estate due diligence, in December 2003 and January 2004, Bloomfield Partners II, LLC, retained Ninyo & Moore to conduct a subsurface investigation in the vicinity of the ASTs and wastewater treatment area. As presented on Figure 3, Ninyo & Moore advanced 14 soil borings to depths of up to 65 feet bgs. Laboratory results indicated concentrations of petroleum hydrocarbons and lead that exceeded the Santa Fe Springs Fire Department (SFSFD) Draft Soil Assessment and Remediation Guidelines for Commercial/Industrial Sites, "Draft 64" (referred to herein as the "SFSFD guidelines"). Ninyo & Moore prepared and submitted a report dated February 13, 2004, to the SFSFD documenting these findings. Ninyo & Moore has also prepared a Soil Management Plan (SMP) dated June 17, 2004, that outlines the scope of work to investigate and remediate "unknown environmental features" that might be encountered during grading activities. The SMP was reviewed and approved by the SFSFD on June 29, 2004.

On September 10, 2004, Ninyo & Moore met with Mr. Hall to discuss the proposed scope of work to close the subject ASTs and industrial wastewater unit. Because impacted soil is known to exist, it was agreed upon by Ninyo & Moore and the SFSFD that closure procedures would be completed, including the collection of the confirmation soil samples as described herein, following which, all of the laboratory data would be evaluated and this report/RAP would be prepared.

3. OBJECTIVES

The objective of the work described in this report was to close the ASTs and industrial wastewater unit in accordance with current regulatory guidelines. The objective of the RAP is to mitigate the petroleum hydrocarbon and metal impacted soil discovered at the site by excavation.

4. AST AND INDUSTRIAL WASTEWATER UNIT REMOVAL

Bloomfield Partners II, LLC, retained Reliable Equipment Rental (Reliable) to clean and remove the ASTs and industrial wastewater unit at the site. Ninyo & Moore completed the confirmation soil sampling under the direction of Mr. Tom Hall of the SFSFD. The sampling was completed by Mr. Paul A. Roberts, a California Registered Geologist from Ninyo & Moore. Soil samples were collected in accordance with Environmental Protection Agency (EPA) Method No. 5035. The soil lithology encountered during this investigation consisted of silty fine sand. The following describes the removal activities.

4.1. AST Removal and Soil Sampling

Prior to commencement of the removal activities, Ninyo & Moore obtained an approved permit from the SFSFD. A copy of the permit is provided in Appendix A. Reliable triplerinsed the ASTs and industrial wastewater unit using a pressure washer prior to removal. The rinsate, accompanied by a non-hazardous waste manifest, was transported to DeMenno Kerdoon of Compton, California, for recycling (Appendix B). Following removal of the rinsate contents, Reliable retained an Industrial Hygienist from CTL Environmental Services to certify the ASTs as non-hazardous. A copy of the Tank Certification is presented in Appendix C.

Reliable removed the ASTs on November 30, 2004. Ninyo & Moore collected soil samples associated with the ASTs and associated piping on November 30, 2004, and December 1, 2004. Soil sampling was completed in accordance with our approved work plan and addendum. Field procedures are presented in Appendix D. Three test pits were excavated beneath both of the larger crude oil ASTs (T1 and T2) and two test pits were excavated in the vicinity of the both of the two aboveground oil/water separators (T3 and T4, Figure 3). Samples P1-1 through P1-6 were collected beneath the underground portion of the crude oil pipeline leading from "Baker" 27 to the oil/water separator (Figure 3). No soil samples were collected beneath the aboveground portions of this piping run.

Soil samples were collected at depths of approximately 2, 5, and 10 feet bgs from each test pit. Petroleum hydrocarbon stained and odorous soil was encountered in test pits excavated along the western portion of the large crude oil ASTs (i.e., test pits T1-1, T1-2, T2-1, and T2-3) and in sample P1-6, collected beneath the associated pipeline (Figure 3). No petroleum hydrocarbon odor or staining was noted in samples collected from test pits excavated on the eastern sides of the ASTs or under the oil/water separators (i.e., test pits T1-3, T2-3, T3-1, T3-2, T4-1, and T4-2). No staining or odors were noted in the remaining samples collected beneath the associated pipeline (i.e., P1-1 through P1-5).

4.2. Industrial Wastewater Unit Removal and Soil Sampling

The aboveground steel tank associated with the first stage wastewater separator was removed on November 30, 2004, during the removal of the ASTs. During the rinsing and removal of liquids in the second stage wastewater separator, Reliable discovered "Baker" 5. This separator was originally constructed as the cellar for this oil well. "Baker" 5 was reabandoned by others at this time.

Confirmation soil sampling was completed on January 27, 2005, after the abandonment of "Baker" 5 and the removal of the second stage wastewater separator and clarifier. The second stage wastewater separator extended to a depth of approximately 8 feet bgs, and

confirmation samples were collected at approximately 9 feet bgs (T5-1 and T5-2). Petroleum hydrocarbon stained and odorous soil was noted in both soil samples.

Because the first stage wastewater separator was an aboveground feature, confirmation soil samples were collected at depths of approximately 2 feet bgs (T6-1 and T6-2). A slight petroleum hydrocarbon odor and no staining were noted in sample T6-1, and no staining or odor was noted in sample T6-2.

During removal of the three stage clarifier, the clarifier was noted to be approximately 3.5 feet in depth. In the previously prepared work plan, the depth of the clarifier was misrepresented at a depth of approximately 8 feet bgs. Soil samples collected at approximately 4 feet bgs within the excavation (T7-1 and T7-2) did not show signs of staining or odors. Reliable is planning to cut and cap the effluent pipeline at the on-site sewer manhole (Figure 3). Work will be conducted under the approved permit and oversight of the Santa Fe Springs Building Department. Copies of the signed permit will be forwarded upon receipt.

4.3. Laboratory Results

As per the approved work plan, selected soil samples were analyzed by State-certified laboratories for total petroleum hydrocarbons as gasoline C₄-C₁₂ (TPHg), total petroleum hydrocarbons carbon chain C₁₀-C₃₂ (which included total petroleum hydrocarbons as diesel fuel C₁₃-C₂₂ [TPHd] and total petroleum hydrocarbons as oil C₂₃-C₃₂ [TPHo]), volatile organic compounds (VOCs), polynuclear aromatics (PNAs), and Title 22 metals in general accordance with EPA Method Nos. 8015 (modified), 8260B, 8270C, and 6010/7000 series. A summary of the laboratory results are presented on Table 2 and copies of the laboratory reports are provided in Appendix E.

Soil samples collected at depths of approximately 2 feet bgs within each test pit and confirmation samples collected beneath the industrial wastewater unit and pipeline were analyzed for the above described constituents. As presented on Tables 1 and 2 and based on all of the investigations conducted at the site to date, limited areas have been identified that contain

elevated concentrations of petroleum hydrocarbons (either TPHg and/or TPHd), metals (copper and/or lead), and/or naphthalene.

5. HUMAN HEALTH SCREENING EVALUATION

Naphthalene is a chemical that is associated with petroleum hydrocarbons, namely crude oil. Naphthalene has recently been classified as a carcinogen by the Federal EPA. Due to this classification, the Preliminary Remediation Goal for residential use (PRGr) value for naphthalene has been reduced from 56 milligrams per kilogram (mg/kg) to 1.7 mg/kg.

Most of the soils that contain elevated concentrations of naphthalene also contain elevated concentrations of petroleum hydrocarbons, and therefore, will be removed from the site as part of the excavation activities. However, some lower concentrations of naphthalene are proposed to be left in place along with the soils that contain low concentrations of petroleum hydrocarbons. To assess whether these lower concentrations of naphthalene can be left in place, Ninyo & Moore completed a Human Health Screening Evaluation (HHSE) based on site conditions and the conservative residential standards.

This section describes the human health screening evaluation and the estimated potential chronic health hazard from post-remedial residual contamination at the site. The objective of this evaluation is to determine if further risk assessment or additional site remediation, land covenants, or other administrative and/or engineering controls are needed to protect future occupants from the remaining concentrations of naphthalene planned to be left on site. The HHSE was completed in general accordance with the Department of Toxic Substances Control (DTSC) Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Interim Final). Documentation associated with the completion of the HHSE is presented in Appendix F. This evaluation consists of five major steps described below.

Exposure Pathways and Media of Exposure – This step includes developing a Conceptual Site Model (CSM) to evaluate the potential exposure pathways, the media of exposure, and the receptor populations (see Appendix F). The CSM describes the sources of contamination, the release

mechanism, the transport mechanism, the transport media, the exposure point, the routes of exposure, and the receptor population for possible scenarios of contaminant exposure. The model discriminates complete pathways from incomplete pathways for the various routes of exposure.

Exposure Concentrations and Chemical of Concern – This step describes the chemicals of concern (COC) (naphthalene) identified through the site characterization program, evaluates the physical and chemical characteristics of the compound used in the exposure assessment, and provides the rationale for including the COC from the human health screening evaluation process.

Toxicity Values – This step assesses the toxicity of the compound and describes the relevant and significant human toxicity data compiled from various sources.

Risk Characterization Summary — This step integrates the results of the exposure assessment and the toxicity assessment to quantify the risk and hazard from the COC. The risk and hazard is summed for all complete exposure pathways.

Uncertainty Analysis – This step summarizes the basic assumptions and uncertainties of the human health screening evaluation.

5.1. Exposure Pathways and Media of Concern

Based on the Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Interim Final), the human health screening evaluation considered the excess cancer risk (ECR) and non-carcinogenic hazard to an adult for the future site use as a residence. This scenario assumes an exposure duration of 30 years at an exposure frequency of 350 days/year, averaged over 70 years for the cancer risk and averaged over 30 years for the non-cancer hazard. The major route of exposure considered in this HHSE was inhalation of volatile organic compounds (i.e., naphthalene).

The CSM, presented in Figure F, shows the relationship between the contaminant sources, exposure pathways, and potential receptors for the site. The source-pathway-receptor rela-

tionships provide the basis for the quantitative exposure assessment. Only complete sourcepathway-receptor relationships are included in this human health screening evaluation.

Based on the knowledge that depth to groundwater at the site is approximately 95 feet bgs, and that groundwater is not used for municipal use, there is no complete pathway for ingestion or absorption. In addition, and as presented in the SFSFD guidelines, the upper 2 feet of soil at final grade is required to be free of petroleum hydrocarbons based on visual and olfactory evidence. Therefore, ingestion or dermal contact with contaminated soil is not a complete pathway. Based on this information, the complete or potentially complete exposure pathway is the inhalation of VOCs migrating from soil to receptors inside a building (i.e., indoor air).

5.2. Exposure Concentrations and Chemical of Concern

Based on site characterization data, the COC was identified as naphthalene. The highest concentrations of naphthalene in soil that will not be excavated during the site remediation were used to estimate the exposure point concentrations (EPC). To obtain the worst case scenario, the site characterization data used to assess exposure from inhalation of naphthalene vapors considered the impacted soils being located at a depth of approximately 2 feet bgs, below the "clean" soil that is required by the SFSFD.

The data used during this evaluation is summarized below.

Sample	Concentration (mg/kg)	Depth
POL2-25	3	25
T1-1	9.3	2
T5-1	17	9

The subsections below briefly describe the methodology used to estimate the ECR and hazard quotient (HQ, which is a measure of the non-cancer hazard to the organism) for inhalation of naphthalene vapors inside a building.

8

The DTSC modified Johnson & Ettinger 2003 model (SG_SCREEN) was used to calculate the ECR and HQ from inhalation of naphthalene in indoor air. The input parameters included the Chemical Abstracts Service (CAS) number, the calculated soil gas concentration at the source, the depth of the source, and the average soil temperature. All other parameters were set to default for a slab-on-grade structure. The default value for the average vapor flow rate into the building of 5 liters/minute was used in the model. For source concentrations in soil, the soil gas concentration in equilibrium in a three phase system was calculated using Equation 1 on page 6 of the User's Guide for Evaluation of Subsurface Vapor Intrusion into Buildings (EPA, 2003). For each sample concentration, SG_SCREEN was run to calculate the ECR and the HQ. The results of the SG_SCREEN runs are presented in Appendix F.

5.3. Risk Characterization Summary

The cumulative ECR and HQ for each sample concentration were calculated and are summarized in the Tables presented in Appendix F. The results are compared to the acceptable risk for the specified future site use (1E-06 for ECR and 1 for HQ) and are discussed below.

The highest indoor air inhalation risk was quantified as 1.8E-07 (ECR) and 4.2E-03 (HQ). The ECR is comparable to the acceptable risk value considering the inherent conservative uncertainty in the default values used to calculate the ECR (see the uncertainty section). The calculated HQ is well below the target HQ of 1.

5.4. Uncertainty Analysis

The HHSE was based on assumptions intended to overestimate risks to provide a conservative estimate of potential health effects. These conservative assumptions include:

Use of the maximum detected concentration of a contaminant as the exposure concentration.

Discounting the attenuation and/or dilution of contaminants during transport from the secondary source to the receptor.

- The toxicity values used to calculate the cancer risk and hazard quotient and obtained from the referenced source have built-in factors of conservatism.
- Factors such as averaging time, exposure duration are overestimated as the likelihood of
 actual continuous chronic exposure averaged over the receptors lifetime for the exposure pathways of incidental ingestion of soil or dermal contact are very low.
- Residential standards
- The risk calculation does not account for a reduced contaminant intake based on reduced bioavailability.

The calculated risk values are therefore, inherently conservative, and may overestimate risks by one or more orders of magnitude. In summary, the inhalation risk from the sample concentrations of naphthalene that is representative of the residual contamination is acceptable. Based on the results of this HHSE, the concentrations of naphthalene proposed to be left in place would not pose a health risk to future occupants of the site.

6. REMEDIAL ACTION PLAN

Based on the laboratory data collected to-date and the RA described above, the following areas are proposed to be mitigated by excavation. The following presents the areas to be excavated and the COCs found in each area. Ninyo & Moore proposes to excavate the impacted soil in each of these areas, following which confirmation samples will be collected and analyzed for the appropriate COC. Confirmation samples will include, at a minimum, one sample per wall and one floor sample from each excavation. The anticipated extent of the excavations associated with each area is shown on Figure 3. The depth and lateral extent may vary depending on the results of confirmation samples. Additional sampling may be warranted if the excavations exceed the areas shown on Figure 3. If needed, the number of confirmation samples will be discussed and agreed upon between Ninyo & Moore and the SFSFD prior to sample collection.

Boring POL1 – Laboratory results indicated elevated concentrations of total lead in a soil sample collected at a depth of approximately 5 feet bgs. Laboratory results of the soil sample collected at approximately 10 feet bgs in this boring indicated low concentrations of total lead (Table 1). The depth of the excavation is expected to be less than 7 to 8 feet bgs. Confirmation samples will be analyzed for total lead.

- Boring POL2 and Confirmation Sample T5-2 Laboratory results of a soil sample collected at a depth of approximately 15 feet bgs in boring POL2 indicated elevated concentrations of TPHg and TPHd. Laboratory results of the soil sample collected at 20 feet bgs in this boring indicated no detectable to low concentrations of TPHg and TPHd (Table 1). Shallower samples collected in the vicinity of this boring (see sample T5-2-9 on Table 2, collected at 9 feet bgs) also indicated elevated concentrations of TPHd and naphthalene. Soils will be excavated to anticipated depths of approximately 17 to 18 feet bgs. Confirmation samples will be analyzed for TPHg, TPHd, and naphthalene.
- Boring POL3 Laboratory results of a soil sample collected at approximately 10 feet bgs indicated elevated concentrations of TPHg and naphthalene (Table 1). The 5- and 15-foot samples collected from this boring indicated no detectable to low concentrations of TPHg and naphthalene. Following removal of the clean overburden to depths of approximately 5 to 7 feet bgs, the impacted soils will be excavated to an anticipated depth of approximately 12 to 13 feet bgs. Confirmation samples will be analyzed for TPHg and naphthalene.
- Pipeline P1-1 Laboratory results of a soil sample collected at a depth of approximately 2.5 feet bgs indicated elevated concentrations of total lead, exceeding the PRGr value. Because total copper exceeded ten times the Soluble Threshold Limit Concentration (STLC), soluble copper was analyzed using the Waste Extraction Test (WET) method. Laboratory results indicated elevated concentrations of soluble copper. The depth of the excavation is expected to be less than 5 feet bgs. The confirmation samples will be analyzed for total lead and total copper.
- Pipeline P1-5 Laboratory results of a soil sample collected at a depth of approximately 1.5 feet bgs indicated elevated concentrations of total lead, exceeding ten times the STLC and the PRGr value. Further analysis indicated elevated concentrations of soluble lead using the WET method. The depth of the excavation is expected to be less than 3 feet bgs. The confirmation samples will be analyzed for total lead.

7. SITE RESTORATION

Following the excavation of the impacted soils, the excavations will be backfilled with imported soils and/or on-site soils. The areas will be compacted and a compaction report will be provided to the General Contractor as part of the grading and redevelopment activities.

8. DISCUSSION

The ASTs and industrial wastewater unit previously used on the site have been removed. Based on the results of an initial soil boring investigation and subsequent confirmation soil samples col-

lected following removal activities, five areas of petroleum hydrocarbon, metal, and/or naphthalene impacted soils were discovered. Because the areas appear to be limited in volume, Ninyo & Moore proposes to excavate and remove the impacted soils. Following completion of the excavation activities, a soil remediation report will be prepared and submitted to the SFSFD. The report will request that a no further action (NFA) letter be issued for the ASTs and industrial wastewater unit by the SFSFD.

Naphthalene is a chemical that is associated with petroleum hydrocarbons. The proposed excavation activities will mitigate most of the soils that contain elevated concentrations of naphthalene during the removal of the soils that contain elevated concentrations of petroleum hydrocarbons. However, some soils that contain lower concentrations of naphthalene and petroleum hydrocarbons will be left in place. Based on the results of the HHSE completed for naphthalene using residential standards, the concentrations of naphthalene proposed to be left in place would not pose a health risk to future occupants of the site.

9. RECOMMENDATION

Based on the chemical data collected at the site and the limited RA completed for naphthalene, Ninyo & Moore recommends that soils containing elevated concentrations of petroleum hydrocarbons, metals, and naphthalene be excavated and removed from the site. The soils containing lower concentrations of chemicals below regulatory and/or HHSE standards can be left in place.

10. REFERENCE

- Ninyo & Moore, 2004a, Results of Subsurface Investigation, Bloomfield II Property, Plegel Oil Company Lease, Santa Fe Springs, California: Letter report prepared for SARES-REGIS Group, Irvine, California, dated February 13.
- Ninyo & Moore, 2004b, General Work Plan to Close Aboveground Storage Tanks and Industrial Wastewater Unit, Bloomfield II Property, Plegel Oil Company Lease, Santa Fe Springs, California: Work plan prepared for the Santa Fe Springs Fire Department, Santa Fe Springs, California, dated September 21.
- Ninyo & Moore, 2004c, Addendum to the General Work Plan dated September 21, 2004, Bloom-field II Property, Plegel Oil Company Lease, Santa Fe Springs, California: Addendum to the work plan prepared for the Santa Fe Springs Fire Department, Santa Fe Springs, California, dated October 5.
- Regional Water Quality Control Board, Los Angeles Region, 1996, Interim Site Assessment & Cleanup Guidebook, dated May.
- United States Environmental Protection Agency (USEPA), 2003, Vapor Intrusion and RCRA Corrective Action (CA), Environmental Indicators (EI) Fact Sheets, Office of Emergency and Remedial Response, dated June 17.

sepiens areas

TABLE 1 - SUMMARY OF SOIL SAMPLES COLLECTED FROM THE INITIAL SOIL BORINGS

C1-	Sample		ТРНес		VOCs	Title 22 Metals	Soluble Lead	Soluble Lead
Sample Number	Depth (ft-bgs)	<c<sub>12 (mg/kg)</c<sub>	C ₁₃ -C ₂₂ (mg/kg)	C ₂₃ -C ₃₂₊ (mg/kg)	(mg/kg)	(mg/kg)	WET (mg/l)	TCLP (mg/l)
POL1-5	5	99	650	2,220	ND	Arsenic 14 Lead 520	4.2	2.4
POL1-10	10					Arsenic 11 Lead 5		
POL1A-10	10	ND	ND	ND				
POL1A-15	15	ND	ND	95				
POL1A-20	20	ND	ND	23				
POL1A-25	25	ND	ND	ND	-			
POL1-30	30	ND	ND	ND	ND	<prgr and="" background<="" or="" td=""><td>-</td><td></td></prgr>	-	
POL2-15	15	2,600	8,800	9,300	1,2,4-Trimethylbenzene 0.15 1,3,5-Trimethylbenzene 0.0056 Ethylbenzene 0.037 4-Isopropyltoluene 0.041 Isopropylbenzene 0.097 n-Propylbenzene 0.16 n-Butlybenzene 0.069 sec-Butylbenzene 0.11 tert-Butylbenzene 0.083 Napthalene 0.41 Xylenes 0.012	<prgr and="" background<="" or="" td=""><td>-</td><td></td></prgr>	-	
POL2-20	20	ND	29	22	ND			
POL2-25	25	310	2,000	1,500	sec-Butylbenzene 0.62 Napthalene 3.0			
POL2-30	30	ND	ND	ND	ND			
POL2A-35	35	ND	ND	ND				
POL2A-40	40	ND	ND	ND				
POL2A-45	45	ND	ND	ND				
POL2A-50	50	ND	ND	ND		-		

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TABLE 1 - SUMMARY OF SOIL SAMPLES COLLECTED FROM THE INITIAL SOIL BORINGS

	Sample		ТРНсс		VOCs	Title 22 Metals	Soluble Lead	Soluble Lead
Sample Number	Depth (ft-bgs)	<c<sub>12 (mg/kg)</c<sub>	C ₁₃ -C ₂₂ (mg/kg)	C ₂₃ -C ₃₂₊ (mg/kg)	VOCs (mg/kg)	(mg/kg)	WET (mg/l)	TCLP (mg/l)
POL3-5	5	470	1,650	1,440	Isopropylbenzene 0.22 n-Propylbenzene 0.31 n-Butlybenzene 0.011 see-Butylbenzene 0.089 Napthalene 0.40	-	-	-
POL3-10	10	2,200	6,300	6,900	n-Propylbenzene 0.57 n-Butlybenzene 0.69 sec-Butylbenzene 2.8 Napthalene 7.0	-		
POL3-15	15	ND	ND	ND	ND			
POL3A-20	20	ND	ND	ND				
POL3A-25	25	ND	ND	ND			-	
POL3A-30	30	ND	ND	ND			-	
POL3A-35	35	ND	52	20				
POL4-5	5	ND	580	5,100				
POL5-5	5	ND	ND	340	ND	<prgr and="" background<="" or="" td=""><td>-</td><td></td></prgr>	-	
POL5-20	20	ND	ND	ND	ND			-
POL6-5	5	ND	ND	ND				
POL6-10	10	ND	ND	ND				
POL7-5	5	ND	ND	ND	ND			
POL7-20	20	ND	ND	ND	ND			
POL8-5	5	ND	ND	ND	ND			
POL8-20	20	ND	ND	ND	ND	-		
POL9-5	5	ND	ND	ND				
POL10-5	5	ND	ND	ND	ND		-	
POL10-20	20	ND	ND	ND	ND	-		
POL11-5	5	ND	ND	ND	ND			
POL11-20	20	ND	ND	ND	ND	<u></u>		

TABLE 1 - SUMMARY OF SOIL SAMPLES COLLECTED FROM THE INITIAL SOIL BORINGS

6I-	Sample		ТРНес		Voc.	Titl. 22.15.1	Soluble Lead	Soluble Lead
	Depth (ft-bgs)	<c<sub>12 (mg/kg)</c<sub>	C ₁₃ -C ₂₂ (mg/kg)	C ₂₃ -C ₃₂₊ (mg/kg)	VOCs (mg/kg)	Title 22 Metals (mg/kg)	WET (mg/l)	TCLP (mg/l)
Maximu Screening		1,600	7,500	36,000	1,2,4-Trimethylbenzene 52/NA 1,3,5-Trimethylbenzene 28/NA Ethylbenzene 8.9/7 4-Isopropyltoluene NA/NA Isopropylbenzene NA/NA n-Butylbenzene 240/NA n-Propylbenzene 240/NA sec-Butylbenzene 220/NA tert-Butylbenzene 390/NA Naphthalene 1.7/NA Xylenes 270/20	Lead: PRGr - 150 TTLC - 1,000 STLC - 5 10 x STLC - 50	STLC - 5	TCLP - 5

Notes:

ft bgs - feet below ground surface

TPHcc - Total Petroleum Hydrocarbon Chain Identification analyzed by EPA Method 8015 modified

VOCs - Volatile Organic Compounds analyzed by EPA Method 8260B

Title 22 Metals -- analyzed by EPA Method 6010/7000

WET - Waste Extraction Test

TCLP - Toxicity Characterisitc Leaching Procedure

Maximim soil screening levels obtained from the Interim Site Assessment & Cleanup Guidebook dated May 1996 by the California Regional Water Quality Control Board mg/kg – milligrams per kilogram

mg/l – milligrams per liter

"--" - not analyzed

Maximim soil screening levels obtained from the City of Santa Fe Springs Soil Assessment and Remediation Guidelines for Commercial/Industrial Sites, the Regional Water Quality Control Board, Los Angeles Region (RWQCB) Interim Site Assessment & Cleanup Guidebook dated May 1996, or the PRGr values. The negotiated screening level for arsenic is 13 mg/kg. Maximum soil screening level for VOCs are presented in PRGr values/RWQCB values (using Table 4-1, for the conservative values of sandy conditions at 80 feet above groundwater) PRGr - Preliminary Remediation Goal for residential use

NA - not applicable

ND - not detected above laboratory reporting limits (see individual laboratory reports for analyte detection limits)

TABLE 2 - SUMMARY OF SOIL SAMPLES COLLECTED BENEATH THE FORMER ABOVEGROUND STORAGE TANKS AND INDUSTRIAL WASTEWATER UNIT

Sample		Depth		TPHcc		VOCs	Title 22 Metals	PNAs	Soluble metals	Soluble lead	
No.	Location	(ft bgs)	C ₄ -C ₁₂ (mg/kg)	C ₁₃ -C ₂₂ (mg/kg)	C ₂₅ -C ₃₂₊ (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	WET analysis (mg/l)	TCLP analysis (mg/l)	
	Test Pit 1 Excavated Beneath Tank 1	2	41	6,900	9,300	Isopropylbenzene 1.9 Propylbenzene 2.8 n-Butylbenzene 0.61 sec-Butylbenzene 1.3 Naphthalene 9.3	< PRGr and/or background	ND	_	-	
		5					-		-		
	10		_			-	-				
	Test Pit 2 Excavated	2	ND	31	340	ND	< PRGr and/or background	ND	-		
T1-2	Beneath Tank I	5	-		_						
		10									
	Test Pit 3 Excavated	2	ND	35	430	, ND	< PRGr and/or background	ND			
T1-3	Beneath Tank 1	5			-			-			
	DUMBER THERE	10					_				
T2-1	Test Pit 1 Excavated Beneath Tank 2	2	15	2,490	3,690	12,4-Trimethylbenzzee 0.250 13,5-Trimethylbenzzee 0.028 Ethylbenzzee 0.016 4-Isopropyltoluene 0.017 Isopropylbenzzee 0.033 n-Propylbenzzee 0.045 n-Butylbenzzee 0.012 sec-Butylbenzzee 0.017 Naphthalene 0.110 Xylenes 0.059	< PRGr and/or background	ND	-		
		5					-				
		10			-						
	Test Pit 2 Excavated	2	ND	104	85	ND	< PRGr and/or background	ND			
T2-2	Beneath Tank 2	5						**			
	Decemen Tank 2	10						-			
	Test Pit 3 Excavated	2	ND	ND	32	ND	< PRGr and/or background	ND			
T2-3	Beneath Tank 2	5	-								
		10					< PRGr and/or background	ND			
	Test Pit 1 Excavated	2	ND	ND	32	ND					
T3-1	Beneath Tank 3			-					-		
	-	10	ND .	ND	36	- ND	< PRGr and/or background	ND	 		
T3-2	Test Pit 2 Excavated	5				- ND	- PKGr and/or oackground		-		
13-2	Beneath Tank 3	10							+ -	-	
	2										
T3-3	Test Pit 3 Excavated Beneath Tank 3	Test Pit 3 Excavated	5							- -	
13-3		10					**	-			
		2	ND	19.6	55	ND ND	<prgr and="" background<="" or="" td=""><td>ND</td><td>_</td><td></td></prgr>	ND	_		
T4-1	Test Pit 1 Excavated	5		19.0		- ND	Thou and or categoria		+		
14-1	Beneath Tank 4	10						 		-	
		2	ND	4	9.8	ND	<prgr and="" background<="" or="" td=""><td>ND</td><td></td><td></td></prgr>	ND			
T4-2	Test Pit 2 Excavated	5			3.0		-	- 112			
14-2 Beneath Tank	Reneath Tank 4	10				-					

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TABLE 2 – SUMMARY OF SOIL SAMPLES COLLECTED BENEATH THE FORMER ABOVEGROUND STORAGE TANKS AND INDUSTRIAL WASTEWATER UNIT

6		D4		TPH _{cc}		NO.			Soluble metals	Soluble lead
Sample No.	Location	Depth (ft bgs)	C ₄ -C ₁₂ (mg/kg)	C ₁₅ -C ₂₂ (mg/kg)	C ₂₃ -C ₃₂₊ (mg/kg)	VOCs (mg/kg)	Title 22 Metals (mg/kg)	PNAs (mg/kg)	WET analysis (mg/l)	TCLP analysis (mg/l)
T5-1	Beneath 2nd Stage Wastewater Separator	9	440	6,000	4,300	Ethylbenzene 0.027 Isopropylbenzene 0.14 n-Butylbenzene 0.038 sec-Butylbenzene 0.11 n-Propylbenzene 0.23 Naphthalene 16	<prgr and="" background<="" or="" td=""><td>2-Methylnaphthalene 53 Naphthalene 17</td><td>+</td><td>-</td></prgr>	2-Methylnaphthalene 53 Naphthalene 17	+	-
T5-2	Beneath 2nd Stage Wastewater Separator	9	4.5	7,700	6,100	1,2,4-Trimethylbenzene 0.17 Ethylbenzene 0.11 4-Isopropyltoluene 0.045 Isopropylbenzene 0.05 n-Propylbenzene 7.2 n-Butylbenzene 0.058 sec-Butylbenzene 0.18 Naphthalene 28	<prgr and="" background<="" or="" td=""><td>2-Methylnaphthalene 60 Naphthalene 22</td><td>-</td><td>-</td></prgr>	2-Methylnaphthalene 60 Naphthalene 22	-	-
T6-1	Beneath 1st Stage Wastewater Separator	2	1.2	83	440	ND	<prgr and="" background<="" or="" td=""><td>ND</td><td>-</td><td></td></prgr>	ND	-	
T6-2	Beneath 1st Stage Wastewater Separator	2	ND	15	32	ND	<prgr and="" background<="" or="" td=""><td>ND</td><td>-</td><td>-</td></prgr>	ND	-	-
T7-1	Beneath Clarifier	4	ND	13	77	ND	<prgr and="" background<="" or="" td=""><td>ND</td><td>-</td><td>_</td></prgr>	ND	-	_
T7-2	Beneath Clarifier	4	3.2	17	49	1,2,4-Trimethylbenzene 0.031 1,3,5-Trimethylbenzene 0.012 Benzene 0.023 Toluene 0.016 Naphthalene 0.014 Xylenes 0.10	<prgr and="" background<="" or="" td=""><td>ND</td><td>-</td><td>-</td></prgr>	ND	-	-
P1-i	Beneath Pipeline 1	2.5	ND	220	900	ND	Copper 1,500 Lead 200 All Others <prgr and="" background<="" or="" td=""><td>ND</td><td>Copper 56.2 Lead 4.82</td><td>ND</td></prgr>	ND	Copper 56.2 Lead 4.82	ND
P1-2	Beneath Pipeline 1	2.5	ND	58.5	301.6	ND	Lead 85 All Others < PRGr and/or background	ND	Lead 1.93	
P1-3	Beneath Pipeline 1	2	ND	61.2	228	ND	Lead 61 All Others <prgr and="" background<="" or="" td=""><td>ND</td><td>Lead 0.72</td><td>_</td></prgr>	ND	Lead 0.72	_
P1-4	Beneath Pipeline 1	1.5	ND	58.5	320	ND	Lead 74 All Others <prgr and="" background<="" or="" td=""><td>ND</td><td>Lead 1.60</td><td>-</td></prgr>	ND	Lead 1.60	-
P1-5	Beneath Pipeline 1	1.5	ND	49	302.9	ФИ	Lead 230 All Others <prgr and="" background<="" or="" td=""><td>ND</td><td>Lend 6.66</td><td>ND</td></prgr>	ND	Lend 6.66	ND
P1-6	Beneath Pipeline 1	1.5	ND	96.7	357.6	ND	Lead 120 All Others <prgr and="" background<="" or="" td=""><td>ND</td><td>Lead 3.08</td><td>ND</td></prgr>	ND	Lead 3.08	ND

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TABLE 2 - SUMMARY OF SOIL SAMPLES COLLECTED BENEATH THE FORMER ABOVEGROUND STORAGE TANKS AND INDUSTRIAL WASTEWATER UNIT

6		D 4		TPH _{cc}		VOCs	THE 2014 A		Soluble metals	Soluble lead
Sample Location Depth No. (ft bgs		(ft bgs)	C_{12} C_{12} C_{13} C_{22} C_{23}		C ₂₃ -C ₃₂₊ (mg/kg)	(mg/kg)	Title 22 Metals (mg/kg)	PNAs (mg/kg)	WET analysts (mg/l)	TCLP analysis (mg/I)
Maz	imum Soil Screening Leve	els	1,600	7,500	36,000	1.2.4-Trimethylbenzzene S2/NA 1.3.5-Trimethylbenzzene 28/NA Ethylbenzene 8.9/7 4-Isopropyltolutene NA/NA Isopropyltolutene NA/NA n-Propylbenzzene 240/NA n-Butylbenzzene 240/NA sec-Butylbenzzene 240/NA 2-Methylmsphthalene NA/NA Benzzene 0.6/0.033 Naphthalene 1.7/NA Xylenes 270/20	Copper: PRGr - 3,100 TILC - 2,500 STLC - 25 10 x STLC - 250 Lead: PRGr - 150 TILC - 1,000 STLC - 5 10 x STLC - 50	NA	Copper: STLC - 25 Lead: STLC-5	Lead 5

ft bgs - feet below ground surface

TPHcc - Total Petroleum Hydrocarbon Chain Identification analyzed by EPA Method 8015 modified

VOCs - Volatile Organic Compounds analyzed by EPA Method 8260B

Title 22 Metals - analyzed by EPA Method 6010/7000 Series

PNAs - poly nuclear aromatic hydrocarbons analyzed by EPA Method No. 8270B

WET - waste extraction test

TCLP - toxicity characteristic leaching procedure

PRGr - Preliminary Remediation Goal for residential use

Maximim soil screening levels obtained from the City of Santa Fe Springs Soil Assessment and Remediation Guidelines for Commercial/Industrial Sites, the Regional Water Quality Control Board, Los Angeles Region (RWOCB) Interim Site

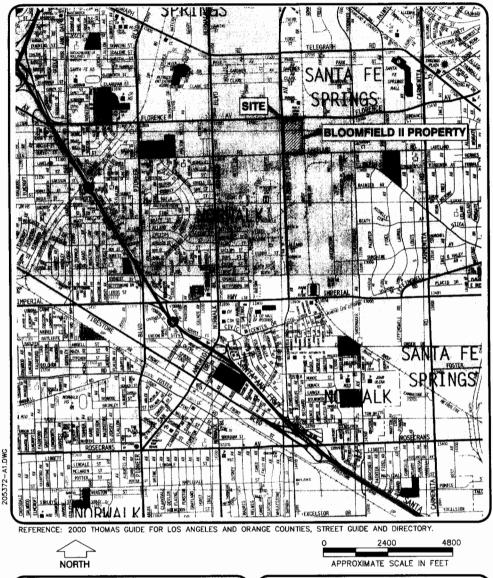
Assessment & Cleanup Guidebook dated May 1996, or the PRGr values. The negotiated screening level for arsenic is 13 mg/kg. mg/kg - milligrams per kilogram

mg/l - milligrams per liter

"-" - not analyzed NA - not applicable

ND - not detected above laboratory reporting limits (see individual laboratory reports for analyte detection limits)

Maximum soil screening level for VOCs are presented in PRGr values/RWQCB values (using Table 4-1, for the conservative values of sandy conditions at 80 feet above groundwater)



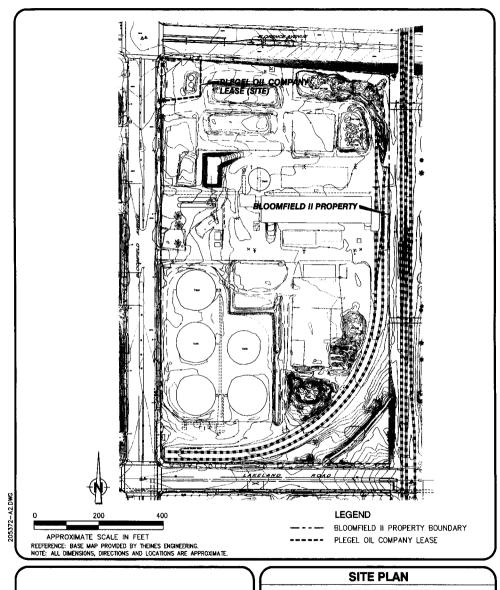
*Yinyo ≈ M*oore

FIGURE

SITE LOCATION MAP **BLOOMFIELD II PROPERTY**

10806 BLOOMFIELD AVENUE SANTA FE SPRINGS, CALIFORNIA

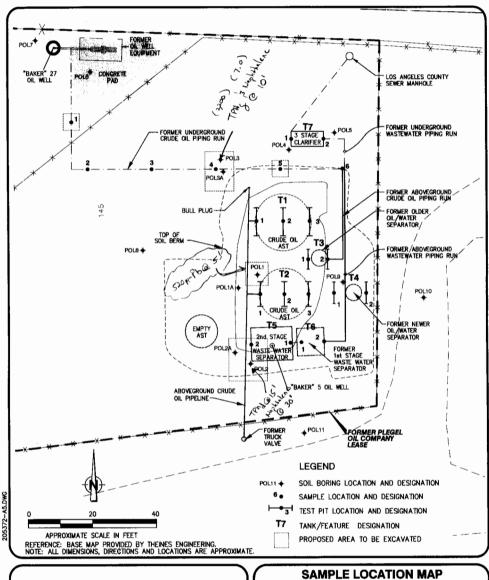
PROJECT NO.	DATE
205372005	1/2005



BLOOMFIELD II PROPERTY 10806 BLOOMFIELD AVENUE SANTA FE SPRINGS, CALIFORNIA

FIGURE

PROJECT NO.	DATE	1
205372005	1/2005	l



*Minyo & M*oore

BLOOMFIELD II PROPERTY 10806 BLOOMFIELD AVENUE SANTA FE SPRINGS, CALIFORNIA

PROJECT NO.	DATE
205372005	1/2005

FIGURE

APPENDIX A

CLOSURE PERMITS



11300 Greenstone Ave. • CA • 90670-4619 • (562) 944-9713 • Fax (562) 941-1817 • www.santafesprings.org

October 6, 2004

Paul Roberts Ninyo & Moore 475 Goddard Irvine, CA 92618

Dear Mr. Roberts:

Subject: CLOSURE AUTHORIZATION FOR THE EXISTING 2-STAGE WASTE WATER SEPARATOR AND 3-STAGE CLARIFIER AND @ 12600 FLORENCE AVENUE

Enclosed is your copy of the closure authorization for the removal of the existing 2-stage waste water separator and the 3-stage clarifier located at the Baker Lease oil production site, 12600 Florence Avenue. Compliance with the Conditions and Limitations listed on the back of the application and sampling in accordance with the General Work Plan dated September 21, 2004 and amended October 5, 2004 is necessary to ensure proper closure. You are required to schedule a closure inspection 72-hours prior to the removal. Failure to provide proper notification may void this authorization for closure and result in additional site investigation requirements.

The Environmental Protection Division may require additional site investigations if signs of contamination are evident. The permittee is responsible for complying with additional requirements imposed by this Department.

If you have any questions regarding this matter, please contact Tom Hall, Industrial Waste Engineer, at (562) 906-3715

Sincerel

Thomas Hali

Environmental Protection Specialist

Enclosure

City of Santa Fe Springs Fire Department

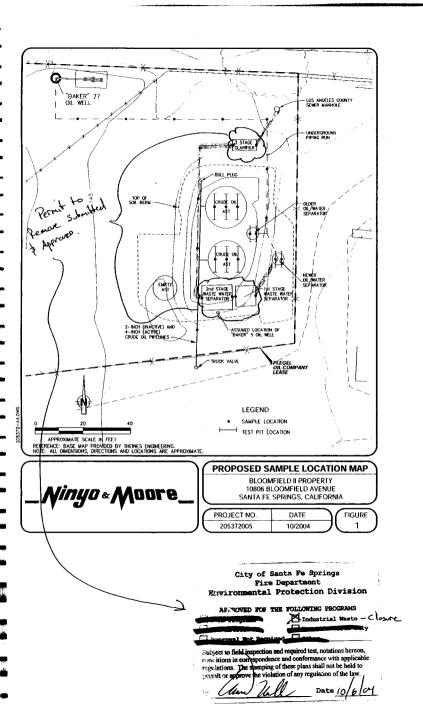
Fire Protection Division • Environmental Protection Division

C-

11300 Greenstone Avenue • Santa Fe Springs CA 90670-4619 • (562) 944-9713 FAX (562) 941-1817

Industrial Waste Application for Closure

industrial Waste Application for Closure
Business Information
Business Name Bloomfield Partners II, LLC
Company Contact Patrick Russell Position Phone number: (949) 756-5959
site address 12600 Florence Ave. City 5xx 72 Fe Springs State CA Zip
Mailing address 18802 Bardeen Ave City Irvine State CA Zip 92612
Confractor Information
Contractor Name P2U1 Roberts Contractor License 697063 A Exp. Date 10/31/04
Company Name Ninyo & Moore Phone Number (949) 753 - 7070
Mailing Address 475 Goddard City Irvine State CA Zip 92618
ype of Closure Requested-All closures under this application must meet the requirements and conditions listed in reverse. Treatment unit removal (see conditions A, B, C, E, and F on reverse) Treatment unit abandonment in place (see conditions A, B, C, D, and F on reverse)
Description of Waste Generating Operations Being Closed
ype of business Oil production IW Permit Number 15403
Source of wastewater Oil /water Separator
ype of treatment unit Oil /water separator
las an unauthorized release ever occurred at this site?
lave structural repairs ever been made to the treatment unit?
Vill new treatment unit(s) be installed after closure? ☐ YES ☑ NO
Vill industrial waste generating operations remain after closure? ☐YES ☑ NO
the answer is YES to any of the above questions, attach an explanation.
he applicant agrees to submit any additional information necessary to aid in the permit evaluation process. Approved ermits may be subject to additional conditions and limitations. An inspection fee may be required upon permit issuance he applicant's signature certifies under penalty of perjury that all statements and disclosures above are true and correct nd that they have read agree to abide by this closure authorization and all conditions and limitations on the reverse side of this form and any additional conditions that may be attached.
applicant's Name Pzul Robers Signature X Kull Kollus Date 9-22-04
osition Owner Operator Contractor
eturn this application, all required plans and supporting information, with the application and plan review fee.
TO BE COMPLETED BY THE SANTA FE SPRINGS FIRE DEPARTMENT
Permission is hereby granted to proceed with the closure described above subject to the attached
conditions and limitations. This permit expires 180 days from the date below.
Neal Welland Inspector Tom Wall Date Approved 10 5 04 Fee Amount \$ 150.00 Date Paid \$ 121 09 Received By That



City of Santa Fe Springs Fire Department • Certified Unified Program Agency 11300 Greenstone Avenue

Santa Fe Springs, CA 90670 Phone (562) 944-9713 • Fax (562) 941-1817

APPLICATION FOR STORAGE TANK CLOSURE

FACILITY NAME: FO	*	ABOV	EGROU	UND 🗆 U	NDI	ERGRO	UND	
FACILITY NAME: FO	rmer Ple	egel Oil	Lease Pr	operty				
LOCATION: 12600	Florence	Ave.		· /				
RESPONSIBLE PARTY II Name 8106			T 110					
Mailing Addre	oc 18007	010	·	City	Tout		State C1	7in 021.12
						949-75		_ Zip _ 1 2 6 1 2
CONTRACTOR OR	de subcontract	or name, addre	ess, phone num	ber, scope of work, and		f the contractor	r's license.	
Name Hi.	-yo & M	oore				State	License Number 🕻	97063 A
Address 47	5 GODDS	re		City	ine		State CA	Zip 92618 49-753-7070
Contact Person	n Pzul	Robers	<u>. </u>				Phone 9	49-753-7070
Permanent, Permanent, Temporary Monitoring	tank remov tank remov closure in p (see conditi well aband ILL BE CLEA	al, non-haz al, hazardo blace (see co on D attach onment (see NED AND/O	ardous (see us (see condondition C a ned) e Condition	E attached)	ed)			FTANK
NTENDED DESTINATIO	N OF TANK	SYSTEM (loc	cation name and	d address):				
COMPLETE THE FOLLO	OWING:							:
TANK ID NUMBER (use state tank ID# for underground tanks)	TANK MATÉRIAL	AGE IN YEARS	CAPACITY	LAST MATERIAL STORED/PAST MATE STORED PER CC4R6738	RIAL			
3	Steel	Unknown	10,500	Cruse oil				
. 2	Steel	Unknam	10,500	Cruse Oil				
3	Steel	Unknewn	2,500	Crube Oil Oil/worer Oil/worder				
4	Steel	UnKincun	2,500	On/weser				,
Has an unauth Have structura Will new tank How many ta	il repairs eve s be installed	r been mad d after this	le to these ta	nks?	YES	S USTs	0 X X 0 X	
By signature below the app bification/Permit Requirem idelines are available upon waste stored or accumulated	nents and Conti	ractor's Declar	ration, the Noti	ce to Closure Permit Ap	plicants	, and all other	conditions and limitation coperator that the identification	ons attached. Additional ity of the last material or
pplicant's Signature_	i cu	110	my				Date 9-21 Phone 949-	-04
mint Name Pzul Title(please check):	Robert Owner	O _I	perator	Contractor			Phone 949-	153-7070
DEBMISSION IS LIEDE		E COMPLE	TED BY TH	IE SANTA FE SPRI	NGS F	TRE DEPAR		THE ATTACHED

CONDITIONS AND LIMITATIONS. THIS PERMIT EXPIRES 180 DAYS FROM THE DATE BELOW.

Mool Wallond

CLOSURE REPORT REQUIREMENTS

- A closure report for storage tanks shall be submitted to the Santa Fe Springs Fire Department containing the items listed below. All closure report requirements must be submitted to the Fire Department within 30 days from the sampling date or 180 days from the data of this permit, whichever is earlier
- Site address of tank closure location.
- Plot plan to scale showing the location of tanks, sampling points, buildings, adjacent streets, and a north arrow. Use a legend to identify tank size and past contents.
- .→Description of methods for obtaining, √ __handling, and transporting samples.
- . \blacksquare Time and date samples were obtained. \checkmark
- Soil sampling certification (including but v -not limited to soils classification, boring _ogs. sample procedures, locations, initiating chain of custody, and -groundwater location) for tank closure ahall be certified by a California Geologist, California Registered а Certified Engineering Geologist, or a -California Registered Civil Engineer with sufficient experience in soils. ertification must clearly state that all work was done under the supervision of the person signing.
- bhain of custody documentation initiated by the person obtaining samples through he person at a Cal/EPA Department of Toxic Substances Control certified laboratory.
- Copy of "clean" closure certification signed by a Certified Marine Chemist, ertified Industrial Hygienist, or Certified Safety Professional.

- Copy of Santa Fe Springs Building
 Department permit. This is required on
 all underground tank closures and some
 aboveground tank closures.
 - Disposal destination of tanks and legal evidence of disposal. Include copy of the Storage Tank Closure Certification form if tanks were removed as hazardous waste.
- 10. Disposal documentation, such as manifests, signed by the receiving facility, for the disposal of any removed soil, tank rinseate, and/or remaining tank contents. Records shall also include a proper waste determination for all waste material related to the removal of the tank(s).
- Analysis results by a State certified laboratory submitted on laboratory letterhead showing analysis date, method of extraction, and method of analysis.
- Documentation as to depths of groundwater at facility.
- 13. Any observations of site contamination. $\$
- Remedial action plan to mitigate contamination.
- 15. Report to be signed by a California Registered Geologist, a California Certified Engineering Geologist, or a California Registered Civil Engineer with sufficient experience in soils.

NOTIFICATION/PERMIT REQUIREMENTS AND CONTRACTOR'S DECLARATION

Storage tank work is subject to compliance with all applicable laws and regulations relating to the performance of work including, but not limited to, business license requirements, Building Codes, Fire Codes, Air Quality regulations, Health and Safety Codes, Water Codes and Transportation regulations.

You are required to complete ALL of the agency notifications indicated below within 24 hours prior to the commencement of work on this project. A request for an inspection within 24 hours does not guarantee you will receive the desired inspection appointment time. You may want to schedule appointments in advance of the 24-hour minimum requirement.

24 HOUR NOTIFICATION REQUIRED TO:

- (X) City of Santa Fe Springs Fire Department 11300 Greenstone Avenue Santa Fe Springs, CA 90670 (562) 944-9713 (562) 941-1817 FAX
- (X) City of Santa Fe Springs Building Department 11710 E. Telegraph Road Santa Fe Springs, CA 90670 (562) 868-0511 (562) 868-7112 FAX
- (X) South Coast Air Quality Management District 21865 Copley Drive Diamond Bar, CA 91765 (909) 396-2000

FAILURE TO PROVIDE NOTICE AS REQUIRED ABOVE MAY RESULT IN PERMIT REVOCATION, ADDITIONAL SITE ASSESSMENT REQUIREMENTS, AND/OR ADMINISTRATIVE PENALTIES AS PROVIDE BY LAW.

I declare I have personally read the permit application for installation/removal of aboveground/underground storage tanks and will follow all the requirements. I declare that the statements and information provided are true and correct. I understand that no work is to begin on the project until the application and plans are approved. I have a City of Santa Fe Springs Business Operators Tax Certificate. I understand that the Santa Fe Springs Fire Department must be contacted at least 24 hours in advance to schedule each required inspection. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that the responsibility is not shared nor assumed by the City of Santa Fe Springs. I understand that a Health and safety Pan shall be prepared before performing any site work and that a copy of that Plan shall be available on the job site. I understand that a late fee will be charged as a result of an inspection not being canceled in a timely manner or a "not ready for inspection" condition existing upon arrival of a Fire Department Inspector. I understand that variations from the approved plans void the approval of the plans.

NOTICE TO CLOSURE PERMIT APPLICANTS

The South Coast Air Quality Management District (SCAQMD) has adopted Rule 1166 regulating emissions of Volatile Organic Compounds (VOC) from decontamination of soil effective August 6, 1988.

<u>In addition</u> to the requirements of your Closure Permit, persons excavating any underground storage tank that previously contained VOC's must:

- Notify the SCAQMD Executive Officer by telephone at (310) 403-6000 24 hours prior to tank excavation. 1166 (c) (1) (A)
- ξ Monitor the excavated material during the excavation for VOC contamination. 1166 (C) (1) (B)
- ξ When VOC contamination is detected:
 - ξ Cease excavation
 - ξ Cover the contaminated soil until implementation of approved mitigation measures. 1166 (c) (1) (C)
 - ξ Notify the SCAQMD Executive Officer at (714) 396-2000 within 24 hours of detection of VOC contaminated soil. 1166 9 (c) (2) (A)
- ξ A person shall not engage in or allow any on-site or off-site spreading of VOC contaminated soil which results in uncontrolled evaporation or VOC to the atmosphere. 1166 (c) (3)

EXEMPTIONS

- ξ Treatment of less than one (1) cubic yard of contaminated soil. 1166 (d) (1) (A)
- ξ Decontamination of soil containing organic compounds that have initial boiling point of 302 θ F or greater, Reid Vapor Pressure less than 80 mm Hg or Absolute Vapor Pressure less than 36 mm Hg at 20 θ C. 1166 (d) (1) (B). (F)
- ξ Removal of soil for sampling purposes pursuant to EPA methods. 1166 (d) (1) (C)
- ξ Accidental spillage of five (5) gallons or less of VOC. 1166 (d) (1) (D)
- ξ Documentation of soil which is contaminated through natural seepage of VOC from oil and gas wells or other natural sources. 166 (d) (1) (E)

SPECIFIC QUESTIONS ON RULE 1166 SHOULD BE REFERRED TO THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT AT (909) 396-2000

CLOSURE PERMIT SAMPLING SUPPLEMENT

Part Jof

The owner or operator of an underground storage tank being closed shall demonstrate to the satisfaction of the Santa Fe Springs Fire Department that no unauthorized release has occurred. This demonstration shall be based on soil sample analysis and or water analysis. These requirements are in addition to the conditions listed on the Application for Storage Tank Closure or contained in an approved Closure Plan. Additional condelines regarding soil sampling requirements are available upon request.

- Samples shall be obtained at the sampling points (SP) dicated on the attached plot plan.
- Samples shall be obtained at the depths identified clow. *All samples shall be tested by Method 8015 M and 8260 B for all volatile organic compounds (VOC) using preparatory method 5035.
- Refer to Soil Sampling Addendum for Volcalle, Semi-Volatile and Extremely Hazardous Materials.

SP	Depth(s)	ompounds	Analysis Method	
		To Be	, we luked	
		in the	Sampling	
		entire	for the site	
		entire	7((0	

CLOSURE PERMIT SAMPLING SUPPLEMENT

.

- All soil samples obtained shall be discrete, undisturbed and unexposed prior to analysis.
 The method used to obtain the samples and the date of sampling shall be included in the final report.
- If groundwater is encountered during sampling, a groundwater monitoring well shall be established at the most down gradient sampling point. The well shall be developed by removing a minimum of four well volumes and a groundwater sample shall be obtained and analyzed.
- 6. The analytical results for all soil samples shall be expressed milligrams per kilogram (mg/kg), or micrograms per kilogram (ug/kg) as appropriate. Practical quantitation limits of 5-10 ug/kg (ppm) for volatile organics and 1 mg/kg (ppm) for the petroleum hydrocarbons must be achieved by the laboratory. Analytical results for groundwater samples shall be expressed in ug/l (ppb) and practical quantitation limits of .5-5 ug/l (ppb) for volatile organics, and 1mg/l (ppm) for petroleum hydrocarbons must be achieved by the laboratory.
- 7. Analytical results shall be reported on laboratory letterhead and shall include the following information: a) The date the analysis was conducted; b) The method of extraction (if applicable); c) Detection limits for each analytical procedure and determination; d) The method of analysis; e) Signature of chemist certifying results.
- All soil/groundwater samples obtained shall be handled and transported to the laboratory in strict accordance with applicable EPA regulations utilizing chain-of-custody procedures. Chain-of-custody documentation shall be included in the final report.
- If the soil/groundwater analysis indicates undefined contamination at the facility, additional sampling shall be required to define the vertical and lateral extent present.
- 10. A final report that contains all of the above required information shall be submitted to the office above within one (1) month from the sampling date or 180 days from the date of this permit, whichever is earlier.

^{*}Note: per Health and Safety Code, §25299.37.1 and Los Angeles Regional Water Quality Control Board

STORAGE TANK CLOSURE REQUIREMENTS AND CONDITIONS

A permit is required to perform storage tank closure work. No on-site work shall begin until plans have been submitted and approved by the Santa Fe Springs Fire Department. The Fire Department must witness parts of the work and an inspection must be scheduled at ast 24 hours in advance. A fee is also required. Any other governmental agency having jurisdiction must be notified before starting source work in order to obtain proper clearance, permits, and arrange for required inspections. A copy of the Health and Safety Plan and other necessary permits must be obtained and kept available at the site. A tank closure report is required for all aboveground concept and all underground storage tank closures that are not temporary. The requirements for this report are listed under Closure Report Requirements.

CONDITION A

PERMANENT UNDERGROUND AND ABOVE GROUND STORAGE TANK REMOVALS NON-HAZARDOUS METHOD

The Santa Fe Springs Fire Department Inspector shall witness items 8-14.

- A minimum of two 2A 40 BC rated fire extinguishers must be on ite no further than 75 feet from the tank removal location. "Extinguishers must have a current State Fire Marshal's tag attached.
- Il ignition sources must remain at least 50 feet away from the excavation. No smoking signs shall be posted.
- Colored tape, fencing, and/or appropriate barriers shall be used a maintain site security.
- All tanks shall be monitored for flammability and oxygen by a monitoring device that has been calibrated within the last six nonths. A sticker or tag with the last calibration date must be on the unit.
- Il piping associated with the tank shall be removed and isposed of unless removal might cause damage to other structures or pipes that are being used in a common trench, in which case the piping to be closed. Pipeline abandonment rocedures are available at the Fire Department upon request.
- All liquids, including rinseate, shall be removed from the tank and connected piping prior to excavation by approved methods. Firounding and bonding procedures shall be followed. Jazardous waste shall be manifested and transported to a fully approved and permitted TSD facility by a Licensed Hazardous Waste Transporter. The fire inspector shall be provided with a copy of the Hazardous Waste Manifest. Associated piping, recluding vent lines, electrical lines, and in-tank pumps, shall be disconnected from the tank and removed from the ground unless approved by the Chief. Continuous supervision must be taintained during the operations by the contractor named on the termit.
- ■FPA guidelines shall be followed for the cleaning process. Bonding and grounding shall be in place. No "hot" work is mermitted any tanks that previously contained flammable or immobustible materials. A pneumatic cold-cutting tool may be used to cut openings for the cleaning procedures. Use only beryllium or approved non-sparking tools. The lower explosive —mit must be below 10% to conduct such work.
- Each tank is cleaned on-site, certified by a Certified Manne Chemist, Certified Industrial Hygienist, or Certified Safety Professional as "clean" and vapor free. Tank cleaning shall be

- 10. The Certified Marine Chemist, Certified Industrial Hygienist, or Certified Safety Professional must take the lower explosive limit reading in the presence of the fire inspector before adding dry ice to the tank. The monitor must be properly calibrated. The LEL must be 0%.
- A minimum of 15 pounds of dry ice per thousand gallons of tank capacity shall be placed into the tank.
- 12. The certified Marine Chemist or certified Industrial Hygienist shall apply an identification number and date to each tank that corresponds to the "certification". A copy of the signed "clean" closure certification form must be given to the fire inspector before he/she leaves the job site.
- 13. Tanks shall be lifted using a crane unless the contractor, at the time of permit application, can show the inspector that another piece of equipment is acceptable and safe. The tank exterior can only be cleaned with beryllium or non-sparking tools.
- 14. The tank shall be secured on an appropriate vehicle for immediate removal from the premises. The tank(s) shall be transported for material recycling or salvage with their respective certification(s). Demolition of above ground tanks shall be conducted as in the work plan approved by the Santa Fe Springs Fire Department.
- 15. In the event that a Certified Marine Chemist, Certified Industrial Hygienist, or Certified Safety Professional will not certify the tank as clean, the tanks shall be handled as a hazardous waste and be transported under all applicable regulations. See Condition B
- Soil samples shall be taken as listed on the Closure Permit Sampling Supplement form.
- 17. Each tank will be allotted a maximum of one hour for removal, loading, off-site transportation, and soil sampling. Closure periods which exceed this time frame, are subject to the fire inspector's schedule and will be charged at the Fire Department hourly inspection rate.
- The site shall be backfilled and compacted to a relative compaction of 90%.
- All Closure Report Requirements must be submitted to the Fire Department within 30 days from the sampling date or

CONDITION B

PERMANENT UNDERGROUND AND ABOVE GROUND STORAGE TANK REMOVALS

HAZARDOUS METHOD Per CHSC\$67383.5

The Fire Department Inspector shall witness item numbers 4 - 6.

- Items 1-7 as described for Condition A, shall be followed as applicable.
- All residual liquids, solids, or sludges, shall be removed and handled as a hazardous waste or recyclable materials in accordance with Chapters 6.5 and 6.7 of the Health and Safety Code. NOTICE: Contaminated tanks and residues that may be left in tanks to be closed may be a hazardous waste which must be transported and disposed of pursuant to Chapter 6.5 of the California Health and Safety Code. Failure to comply
- The tank's interior atmosphere shall be inerted using 22.2 pounds of dry ice per 1000 gallons of tank capacity.

may be prosecuted as a felony conviction.

- 4. A Certified Industrial Hygienist, Certified Marine Chemist, or Certified Safety Professional shall take LEL readings with a CGI that has been properly calibrated. Oxygen content shall also be measured and must be below 8% or less than 50% of the oxygen concentration required to support combustion, whichever is less, during the entire period that work is in progress. The readings shall be taken at the top, center and bottom of the tank before it is loaded onto the transport vehicle.
- All openings in the tank shall be plugged, except an 1/8 vent, Cracks, holes or other damage shall be covered to contain any release.
- 5. Items 16 –19 as identified in Condition A shall be complied with.

Determined to the property

CONDITION C

PERMANENT IN PLACE UNDERGROUND STORAGE TANK CLOSURES

The Fire Department Inspector shall witness item numbers 4 - 6.

- All in place storage tank closures must be approved by the Building Department before applying to the Fire Department or a scaled drawing, stamped by a Professional Engineer, may be submitted. The drawing must show the location of the tank in blan view and in cross section. The drawing must show the angle (in degrees) from the closest footing of the permanent structure to the closest part of the tank system.
- mems 1-7 as described for Condition A, shall be followed as applicable.
- All residual liquids, solids, or sludges, shall be removed and andled as a hazardous waste or recyclable materials in accordance with Chapters 6.5 and 6.7 of the Health and Safety code.

- The tank shall be completely filled with an inert solid. Cement slurry is acceptable. Sand or water is not. Alternative proposals must be submitted in writing and are subject to Fire Department approval.
- Each tank will be allotted a maximum of one hour for filling of the tank and soil sampling. Closure periods which exceed this time frame, are subject to the fire inspector's schedule and will be charged at the Fire Department hourly inspection rate.
- Soil samples shall be taken as listed on the Soil Sampling. Requirements form in the Application for Storage Tank Closure.
- All Closure Report Requirements must be submitted to the Fire Department within 30 days from the sampling date or 180 days from the date of the permit, whichever is earlier.

CONDITION D

TEMPORARY STORAGE TANK CLOSURES

The Fire Department Inspector shall witness items 2 - 5.

Items 2 and 3 as described in Condition C, shall be followed as applicable.

The Fire Department shall witness verification that the tank is empty. This may be done by dip sticking the tank. Afterward, the storage tank may be filled with a non-corrosive liquid that is not a hazardous substance. Proof of compatibility of the liquid with the tank must be submitted to the Santa Fe Springs Fire Department.

Except for required venting, all fill and access locations and piping shall be sealed using locking caps or concrete plugs.

Power service shall be disconnected from all pumps associated with the use of the storage tank unless the power services some other equipment which is not being

closed, such as an impressed-current cathodic protection system.

- Monitoring shall continue pursuant to the permit during the temporary closure, unless determined otherwise by the Fire Department.
- The storage tank shall be inspected every 3 months by the owner or operator to verify temporary closure requirements are still in place.
- 7. Temporary closure permits are valid for six months from the date of approval. The tank must be removed, closed in place, or put back into use. If the tank is reused, it must meet the requirements of the Uniform Fire Code, Article 3 or 6 of Title 23 of the California Code of Regulations, Division 3, Chapter 16, and Health and Safety Code Ch. 6.7.

CONDITION E

WELL ABANDONMENTS

- All abandoned wells shall be destroyed in such a way that they will not produce water or act as a channel for interchange of water, when such interchange may result in deterioration of the quality of water in any or all water bearing formations penetrated, or present a hazard to the safety and well being of people and animals.
- A well destruction permit issued by the Los Angeles Department of Health Services shall be required for all wells requiring a permit for their initial construction.
- Well destruction shall be accomplished according to methods described in the latest "Water Well Standards: State of California" by the Department of Water Resources, contained in bulletin 74-81, December 1981, or any other methods that will provide equivalent or better protection.
- Verification of well abandonment may be submitted in writing or by requesting a Fire Department inspection.

CLOSURE REPORT REQUIREMENTS

A closure report for storage tanks shall be submitted to the Santa Fe Springs Fire Department
 containing the items listed below. All closure report requirements must be submitted to the Fire Department within 30 days from the sampling date or 180 days from the data of this permit,
 whichever is earlier.

- Site address of tank closure location.
- Plot plan to scale showing the location of tanks, sampling points, buildings, adjacent streets, and a north arrow. Use a legend to identify tank size and past contents.
- Description of methods for obtaining, handling, and transporting samples.
- 4 Time and date samples were obtained.
- 5. Soil sampling certification (including but _ not limited to soils classification, bonng procedures. sample logs. locations, initiating chain of custody, and - groundwater location) for tank closure shall be certified by a California Geologist. California Registered а - Certified Engineering Geologist, or a _ California Registered Civil Engineer with sufficient experience in soils. - certification must clearly state that all work was done under the supervision of the person signing.
- Chain of custody documentation initiated by the person obtaining samples through the person at a Cal/EPA Department of Toxic Substances Control certified laboratory.
- Copy of "clean" closure certification signed by a Certified Marine Chemist, Certified Industrial Hygienist, or Certified Safety Professional.

- Copy of Santa Fe Springs Building Department permit. This is required on all underground tank closures and some aboveground tank closures.
- Disposal destination of tanks and legal evidence of disposal. Include copy of the Storage Tank Closure Certification form if tanks were removed as hazardous waste.
- 10. Disposal documentation, such as manifests, signed by the receiving facility, for the disposal of any removed soil, tank rinseate, and/or remaining tank contents. Records shall also include a proper waste determination for all waste material related to the removal of the tank(s).
- Analysis results by a State certified laboratory submitted on laboratory letterhead showing analysis date, method of extraction, and method of analysis.
- Documentation as to depths of groundwater at facility.
- 13. Any observations of site contamination.
- Remedial action plan to mitigate contamination.
- 15. Report to be signed by a California Registered Geologist, a California Certified Engineering Geologist, or a California Registered Civil Engineer with sufficient experience in soils.



City of Santa Fe Springs ● Certified Unified Program Agency STORAGE TANK CLOSURE CERTIFICATION

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INSTRUCTIONS FOR COMPLETION OF THE CONSOLIDATED PERMIT APPLICATION PACKAGE TANK CLOSURE CERTIFICATION INFORMATION

The owner or operator of the tank system shall notify the CUPA in writing of the information contained in this form prior to imitiating cleaning, cutting, dismantling, or excavation of a tank system that meets the conditions below.

- This form applies to any tank system that previously held a hazardous material or a hazardous waste, that is identified
 as a hazardous waste or that is destined to be disposed, reclaimed or closed in place.
- The requirements of this chapter do not apply to tank systems regulated under a hazardous waste facility permit, other than a permit by rule, or to tank systems regulated under a grant of interim status, nor to a tank system or any portion thereof that meets the definition of scrap metal in section 66260.10 and is excluded from regulation pursuant to section 66261.6(a)(3)(B).
 - FACILITY ID NUMBER Enter your Facility ID number, if known. Otherwise, leave this blank. This number is assigned by the Santa Fe Springs Fire Department. This is the unique number which
- identifies your facility.

 BUSINESS NAME Enter the full legal name of the
- business.

 TANK OWNER NAME Complete items 500-504 in this section, unless all items are the same as the Business Owner/Operator Identification Section, Owner Information. If the same, write "SAME AS SITE" across this section.
- TANK OWNER SITE ADDRESS
- 502. TANK OWNER SITE CITY
- 503. TANK OWNER SITE STATE
- 5 . TANK OWNER SITE ZIP

IANK INTERIOR ATMOSPHERE READINGS List the restrict flammable vapor and oxygen levels for each tank being closed.

- the appropriate box to indicate the organization to which the certifying person belongs.
- CERTIFIER The name of the certifying person.
- 507. CERTIFIER TITLE Print title of the person certifying the form.
- CERTIFICATION DATE Enter the date that the document was signed. (YYYYMMDD)

NOTICE TO CLOSURE PERMIT APPLICANTS

The South Coast Air Quality Management District (SCAQMD) has adopted Rule 1166 regulating emissions of Volatile Organic Compounds (VOC) from decontamination of soil effective August 6, 1988.

<u>In addition</u> to the requirements of your Closure Permit, persons excavating any underground storage tank that previously contained VOC's must:

- Notify the SCAQMD Executive Officer by telephone at (310) 403-6000 24 hours prior to tank excavation. 1166 (c) (1) (A)
- Monitor the excavated material during the excavation for VOC contamination. 1166
 (C) (1) (B)
- When VOC contamination is detected:
 - Cease excavation
 - Cover the contaminated soil until implementation of approved mitigation measures. 1166 (c) (1) (C)
 - Notify the SCAQMD Executive Officer at (714) 396-2000 within 24 hours of detection of VOC contaminated soil. 1166 9 (c) (2) (A)
- A person shall not engage in or allow any on-site or off-site spreading of VOC contaminated soil which results in uncontrolled evaporation or VOC to the atmosphere. 1166 (c) (3)

EXEMPTIONS

- Treatment of less than one (1) cubic yard of contaminated soil. 1166 (d) (1) (A)
- Decontamination of soil containing organic compounds that have initial boiling point
 of 302° F or greater, Reid Vapor Pressure less than 80 mm Hg or Absolute Vapor
 Pressure less than 36 mm Hg at 20° C. 1166 (d) (1) (B). (F)
- Removal of soil for sampling purposes pursuant to EPA methods. 1166 (d) (1) (C)
- Accidental spillage of five (5) gallons or less of VOC. 1166 (d) (1) (D)
- Documentation of soil which is contaminated through natural seepage of VOC from oil and gas wells or other natural sources. 166 (d) (1) (E)

SPECIFIC QUESTIONS ON RULE 1166 SHOULD BE REFERRED TO THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT AT (909) 396-2000

Mr. Tom Hall Santa Fe Springs Fire Department 11300 Greenstone Avenue Santa Fe Springs, California 90670

Subject: Addendum to the General V

Dated September 21, 2004 Bloomfield II Property

Plegel Oil Company Lease Santa Fe Springs, California

City of Santa Fe Springs Fire Department Environmental protection No. 205372005 ADPROVED FOR THE FOLLOWING PROGRAMS Other . or subject to field inspection and required test, notations hereon, conditions incorrespondence and conformance with applicable regulations. The stamping of these plans shall not be held to

permit or approve the violation of any regulation of the law. Date 1060

Dear Mr. Hall:

This letter presents an addendum to the General Work Plan dated September 21, 2004, to close the aboveground storage tanks (ASTs) and an industrial wastewater unit at the Plegel Oil Company Lease property (site) located in the northwestern corner of the Bloomfield II Property in Santa Fe Springs, California. As per your request during our telephone conversation on September 30, 2004, this addendum revises the sampling plan as per the Santa Fe Springs Fire Department (SFSFD) Soil Assessment and Remediation Guidelines for ASTs and industrial wastewater units. The following modifications will be made to the General Work Plan:

REVISED SAMPLING PLAN ABOVEGROUND STORAGE TANKS

Three test pits will be excavated as shown on Figure 1 beneath the location of each of the 10.500-gallon ASTs. Two test pits will be excavated beneath the location of each of the 2,500gallon oil/water separators. Soil samples will be collected at depths of approximately 2, 5, and 10 feet below the bottom of each tank. The soil sample collect at a depth of approximately 2 feet below the bottom of the tank from each test pit will be chemically analyzed as per the General Work Plan. If elevated concentrations are detected, the 5- and 10-foot samples within that test pit will also be chemically analyzed.

REVISED SAMPLING PLAN INDUSTRIAL WASTEWATER UNIT

Two samples will be collected from beneath each of the three stages of the industrial wastewater system (the first stage metal aboveground tank, the second stage belowground sump, and the third stage clarifier). Samples will be collected as shown on Figure 1 at depths of approximately 2 feet below the bottom of the excavation. Soil samples will be analyzed as per the General Work Plan. Soil samples will also be collected at approximately 20-foot intervals along the underground piping run associated with the industrial wastewater unit. Figure 1 shows the estimated location of the piping run and the sampling locations. These samples will be analyzed as per the General Work Plan.

The work is tentatively scheduled for October 18 through 22, 2004. Prior to beginning the work, the SFSFD will be notified. If you have any questions or comments regarding this addendum, please call the undersigned at your convenience.

Sincerely,

NINYO & MOORE

Paul A. Roberts, R.G., R.E.A. I/II Senior Environmental Geologist

PAR/emp

Attachment: Figure 1 - Proposed Sample Location Map

Distribution: (1) Addressee

(1) Mr. Patrick Russell, Bloomfield Partners II, LLC

(1) Pam Andes, Esq., Allen Matkins Leck Gamble & Mallory LLP



September 21, 2004 Project No. 205372005

Mr. Tom Hall Santa Fe Spring Fire Department 11300 Greenstone Avenue Santa Fe Springs, California 90670

Subject:

General Work Plan to Close Aboveground Storage Tanks

and Industrial Wastewater Unit Bloomfield II Property Plegel Oil Company Lease Santa Fe Springs, California

Dear Mr. Hall:

This work plan presents the scope of work and schedule to close the four aboveground storage tanks (ASTs) and the industrial wastewater unit at the Plegel Oil Company Lease property (referred to as the Plegel lease property or the site) located in the northwestern corner of the Bloomfield II Property in Santa Fe Springs, California (Figures 1 and 2). Bloomfield Partners II, LLC, recently purchased the larger Bloomfield II Property and the Plegel lease property for redevelopment as commercial property.

BACKGROUND

The site and Bloomfield II Property have been used as oil production from at least 1923 through the time of this report. Oil wells on the Bloomfield II Property have recently been reabandoned in preparation of the redevelopment of the property. The site was used by Plegel Oil Company for the production and storage of crude oil. Based on groundwater wells located on the Bloomfield II Property, groundwater has been measured at depths of approximately 95 feet below the ground surface (bgs).

The site currently contains an active oil well (Hathaway Company "Baker" 27), a decommissioned and abandoned oil well (Texaco, Inc., "SFS" 5), three small ASTs (two containing crude

oil and one empty), an older oil/water separator, a newer oil/water separator, two wastewater separators, a clarifier, and two roll-off storage containers (Figure 3). Crude oil is pumped from "Baker" 27 and piped to the newer oil/water separator. The older oil/water separator was recently taken off line (approximately one month ago) and replaced with the newer oil/water separator (Plegel, 2004). Oil from the separator is pumped into the two ASTs for storage. The ASTs are relatively small, holding approximately 250 barrels of crude oil each (or approximately 10,500 gallons per AST). According to Mr. Wayne Plegel, owner of Plegel Oil Company, the empty AST has never stored hazardous materials on site. As per the request of Mr. Tom Hall of the Santa Fe Springs Fire Department (SFSFD), Ninyo & Moore obtained a signed letter from Mr. Plegel documenting this statement; a copy is provided in Attachment A. Based on this information, four ASTs will be closed through the City of Santa Fe Springs. The ASTs to be closed include the two crude oil tanks, the older oil/water separator, and the newer oil/water separator.

The wastewater generated from the pumping process is diverted through a three stage wastewater system that clarifies the water before it is discharged to the city storm drain. The first stage of the wastewater system is a metal aboveground tank (referred to as the first stage wastewater separator on Figure 3). The second stage consists of a concrete lined, belowground sump (referred to as the second stage wastewater separator on Figure 3). The third stage of the wastewater treatment unit is the clarifier located north of the crude oil ASTs (Figure 3). Based on this information, one industrial wastewater unit will be closed through the City of Santa Fe Springs. The industrial wastewater unit includes the first stage wastewater separator, the second stage wastewater separator, and the clarifier.

As part of the real estate due diligence, in December 2003 and January 2004, Bloomfield Partners II, LLC, retained Ninyo & Moore to conduct a subsurface investigation in the vicinity of the ASTs and wastewater treatment area. As presented on Figure 3, Ninyo & Moore advanced to the ASTs and wastewater treatment area. As presented on Figure 3, Ninyo & Moore advanced to the ASTs and wastewater treatment area. As presented on Figure 3, Ninyo & Moore advanced to the ASTs and wastewater treatment area. As presented on Figure 3, Ninyo & Moore prepared to the vicinity of the vicinity of the ASTs and wastewater treatment area. As presented on Figure 3, Ninyo & December 3, Ninyo & Moore prepared and submitted a report dated February 1. Sinyo & Moore prepared and submitted a report dated February 1.

ruary 13, 2004, to the SFSFD documenting these findings. Ninyo & Moore has also prepared a Soil Management Plan (SMP) dated June 17, 2004, that outlines the scope of work to investigate and remediate "unknown environmental features" that might be encountered during grading activities. The SMP was reviewed and approved by the SFSFD on June 29, 2004.

On September 10, 2004, Ninyo & Moore met with Mr. Hall to discuss the proposed scope of work to close the subject ASTs and industrial wastewater unit. Because impacted soil is known to exist, it was agreed upon by Ninyo & Moore and the SESED that closure procedures would be completed including the collection of confirmation soil samples, following which all of the laboratory data would be evaluated and a closure report and Remedial Action Plan (RAP) would be prepared.

OBJECTIVE

The objective of the work presented herein is to close the ASTs and industrial wastewater unit in accordance with current regulatory guidelines.

SCOPE OF SERVICES

Ninyo & Moore's proposed scope of work will include the following:

- Task 1: Obtain Permits As part of this work plan, Ninyo & Moore has submitted the Application for Storage Tank Closure and Industrial Waste Application for Closure to the SFSFD, along with the appropriate fees. Following approval of these applications, Ninyo & Moore will obtain a sewer/plumbing permit from the Santa Fe Springs Building and Safety Department (SFSBD).
- Task 2: Health and Safety Plan The Health and safety Plan presented in the SMP dated June 17, 2004, will be used during the closure activities presented herein.

site recycling facility. Each tank will then be certified by a Certified Marine Chemist, Certified Industrial Hygienist, or Certified Safety Professional as "clean" and vapor free. The ASTs and industrial wastewater unit will then be demolished and removed from the site as construction debris. On-site pipelines associated with the ASTs and industrial wastewater unit will be removed. The outlet pipeline will be severed at or near the property line and will be capped with fast-setting cement or other approved equivalent material.

Task 4: Confirmation Sampling – Confirmation sampling will be conducted with the oversight of a California Registered Geologist from Ninyo & Moore. One sample will be
collected beneath each of the four ASTS, the two crude oil ASTs, the older oil/water separator, and the newer oil/water separator and each of the wastewater separators (i.e., the first
stage wastewater separator, the second stage wastewater separator, and the clarifier). Soil
samples will also be collected
the pipelines are unknown at this time, however, it is assumed that underground nipelines exist between the active oil well and the newer oil/water separator; from
the newer oil/water separator to the first stage wastewater separator; from the second stage
wastewater separator to the clarifier; and from the crude oil ASTs to a truck valve located
immediately south of the Plegel lease property. The ground pipelines discovered during the
demolition activities will be accurately mapped by Ninyo & Moore Soil samples will be collected from the backhoe bucket at depths of approximately feet below the bettern of each
feature. Samples will be accurately mapped by Ninyo & Moore Soil samples will be collected from the backhoe bucket at depths of approximately feet below the bettern of each
feature. Samples will be coolected in alaboratory supplied glass jars and in accordance with
BPAMethod No. 5035. Field procedures are presented in Attachment B.

- Task 5: Laboratory Analyses Soil samples will be analyzed for total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbon carbon chain C₁₀-C₃₂ (TPHcc), volatile organic compounds (VOCs), polynuclear aromatics (PNAs), and Title 22 metals in general accordance with EPA Method Nos. 8015 (modified), 8260B, 8270C, and 6010/7000 series.
- Task 6: Closure Report and Remedial Action Plan Following receipt of the laboratory
 reports, an AST/Industrial Wastewater Unit Closure Report and RAP will be prepared that
 will document the decommissioning and closure of the ASTs and industrial wastewater unit,
 laboratory results, and the remedial action for mitigating on-site soils.

SCHEDULE

Following approval of the work plan, Tasks 3 through 5 will be completed in approximately three to four weeks. The closure report and RAP will be submitted to the SFSFD for review approximately four weeks following removal activities.

and propries

3 south

If you have any questions or comments regarding this work plan, please call the undersigned at your convenience.

DED GEOLO

Sincerely,

NINYO & MOORE

PAUL A. ROBERTS

Paul A. Roberts, R.G., R.E.A. I/II Senior Environmental Geologist

PAR/emp

Attachments: Figure 1 - Site Location Map

Figure 2 - Site Plan

Figure 3 - Soil Boring Location Map

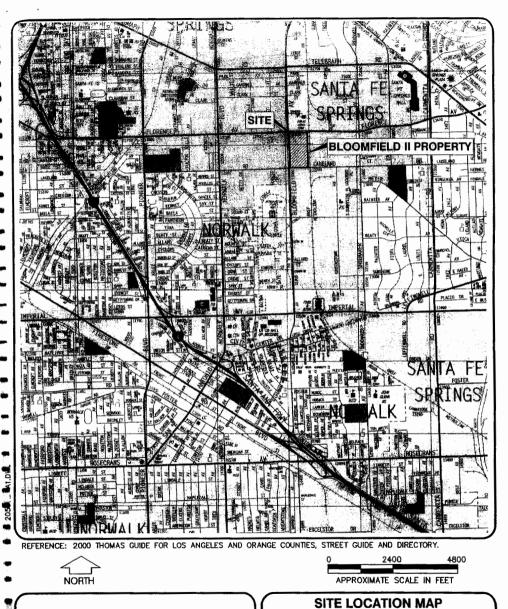
Attachment A - Copy of Signed Statement by Mr. Wayne Plegel

Attachment B - Field Procedures

Distribution: (1) Addressee

(2) Mr. Patrick Russell, Bloomfield Partners II, LLC

(1) Pam Andes, Esq., Allen Matkins Leck Gamble & Mallory LLP



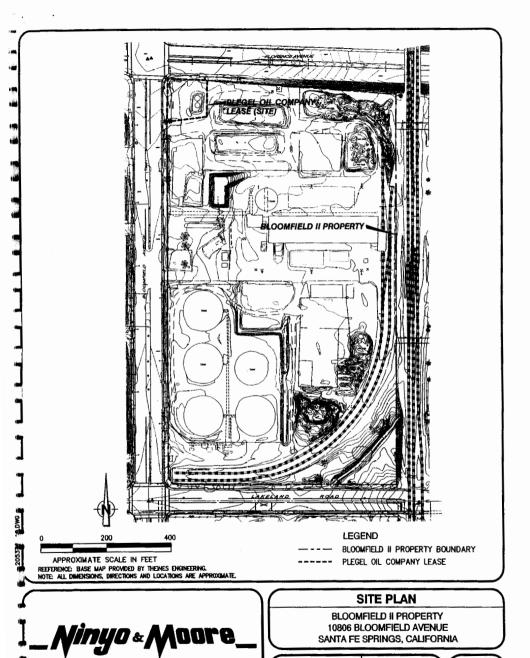
*Ninyo* & Moore

PLOCHELD II PROPERTY

BLOOMFIELD II PROPERTY 10806 BLOOMFIELD AVENUE SANTA FE SPRINGS, CALIFORNIA

PROJECT NO. DATE

FIGURE

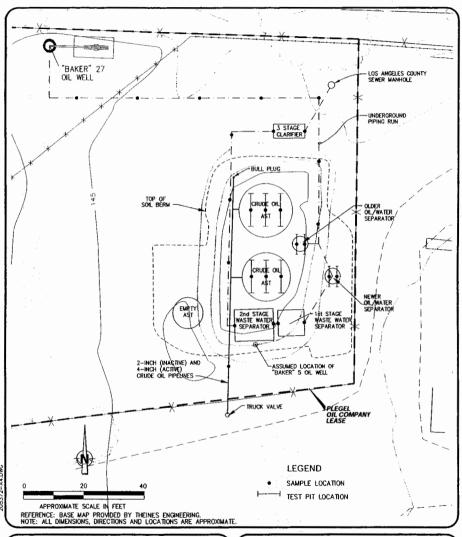


PROJECT NO.

205372005

DATE

9/2004



*Ninyo* & Moore

PROPOSED SAMPLE LOCATION MAP

BLOOMFIELD II PROPERTY 10806 BLOOMFIELD AVENUE SANTA FE SPRINGS, CALIFORNIA

PROJECT NO.	DATE
205372005	10/2004

FIGURE 1

September 21, 2004 Project No. 205372005

ATTACHMENT A

COPY OF SIGNED STATEMENT BY MR. WAYNE PLEGEL



September 13, 2004 Project No. 205372004

Mr. Wayne Plegel Plegel Oil Company 17052 Cascades Avenue Yorba Linda, California 92886

Subject:

Documentation of Telephone Conversation

Bloomfield II Property Plegel Oil Company Lease Santa Fe Springs, California

Dear Mr. Plegel:

This letter documents our telephone conversation we had this afternoon. As we discussed, Ninyo & Moore has been retained by Bloomfield II Partners, LLC to remove the aboveground storage tanks (ASTs) and wastewater treatment unit at the above-referenced property (site). As part of this process, we are preparing the closure applications and associated fees. As you stated during our conversation, to the best of your knowledge, the empty AST located on the western portion of the bermed area has never contained liquids, hazardous materials, or other substances since it was installed on the subject site. Please verify this statement by signing below. Ninyo & Moore will present this letter to the Santa Fe Springs Fire Department who will exempt the subject AST from the Aboveground Storage Tank Closure Permit application. If there are any questions, please feel free to call me at 949-753-7070.

Sincerely.

NINYO & MOORE

Paul A. Roberts, R.G., R.E.A. I Senior Environmental Geologist

PAR

Distribution: (1) Addressee

(1) Mr. Patrick Russell, Bloomfield Partners, LLC

Verify AST Usage:

mille

ATTACHMENT B

FIELD PROCEDURES

FIELD PROCEDURES

Confirmation Sampling

- Bloomfield Partners II, LLC, will retain a State-licensed contractor to close the aboveground storage tanks (ASTs) and industrial wastewater unit, and excavate test pits for the collection of confirmation soil samples. The operator will be HAZWOPER 40-hour trained.
- Ambient air quality within the work zone will be monitored for potentially hazardous materials (e.g., volatile organic compounds [VOCs]) using an organic vapor analyzer (OVA), or equivalent equipment calibrated to meet the requirements of South Coast Air Quality Management District (SCAQMD) Rule 1166.
- Soil samples will be collected using laboratory supplied glass jars. The samples will be collected from the bucket of the backhoe. The samples collected for the analyses of VOCs and total petroleum hydrocarbons as gasoline (TPHg) will be collected in general accordance with EPA Method No. 5035.
- 4. The samples retained for chemical analyses will be placed in zip-lock bags and stored in an ice chest cooled, using ice, to a temperature of approximately 40 degrees Fahrenheit.
- Soil samples will be delivered to a state-certified laboratory within 24 hours after collection. Sample handling, transport, and delivery to the laboratory will be documented using chain-of-custody procedures, including the use of chain-of-custody forms.

February 8, 2005 Project No. 205372005

APPENDIX B

NON-HAZARDOUS WASTE MANIFESTS



1516 Beechwood Avenue • Fullerton, CA 92835 Ph: (714) 822-5438 Fax: (714) 256-0822

Nº 116

	NON-HAZARDOUS WASTE DATA FORM								
BY GENERATOR	NAME PLEGEL OIL CO/SANIS REGIS ADDRESS BYLER TOWK FORM CITY, STATE, ZIP SONTA FE SPRINGS 90690 PHONE NO 714 1572 3571 CONTAINERS: NO. VOLUME 100 BBL WEIGHT TYPE TO TANK TRUCK DUMP TRUCK DRUMS DARTONS DOTHER								
	WASTE DESCRIPTION TANK BOTTOM 5 GENERATING PROCESS OL PRODUCT 10 W COMPONENTS OF WASTE PPM % COMPONENTS OF WASTE PPM % TANK BOTTOM S 1. TANK BOTTOM S 6.								
BE COMPLETED	2 6 7 4 8 8 8.								
10 B	PROPERTIES: pH Closses Liquid Studge Studge Studge OTHER								
· •	THE WASTE AS DESCRIBED IS 100% AND NON-HAZARDOUS TYPEO OR PRINTED FULL NAME & SIGNATURE DATE								
e E	NAME TMG TRANSPORTATION, INC. ADDRESS 1516 BEECHWOOD AVENUE SERVICE ORDER NO.								
PORT	CITY, STATE, ZIP FULLERTON, CA 92835 PICK UP DATE								
TRANSPORT	PHONE NO								
	TRUCK UNIT LD. NO. / 25 TYPET OR PRINTED FULL NAME & SIGNATURE DATE								
	NAME ANTERNA LD. NO. DISOSAL METHOD								
	ADDRESS 1933 to Wooley Rd DIANDFILL OTHER								
150 PT	PHONE NO. 80.5 240 4646 TANIS SOUTH NAME & SIGNATURE 15 V ROTTOLAL DATE								
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_	CIQ RYICD WOF NONE DISCREPANCY								



1516 Beechwood Avenue • Fullerton, CA 92835 Ph: (714) 822-5438 Fax: (714) 256-0822 **9** 1168

NON-HAZARDOUS WASTE DATA FORM

Œ	NAME SARI'S PEGIS PLAGEL OIL ADDRESS 18802 BIDINE AV 1.5. CITY, STATE, ZIP TRUINE CA 92612 PHONE NO. 1714 1.5.12-3.571
TO BE COMPLETED BY GENERATOR	CONTAINERS: NO. VOLUME /OOBBL WEIGHT TYPE STANK TRUCK DUMP TRUCK DRUMS CARTONS DOTHER WASTE DESCRIPTION TANK BOTTOMS GENERATING PROCESS OL PROJUCTION COMPONENTS OF WASTE PPM % COMPONENTS OF WASTE PPM % 1. TANK BOTTOMS /OO 6. 2. 6. 3. 7. 4. 8. PROPERTIES: pH 2 DISOLID DUGUID STANDED SLUBRY DOTHER HANDLING INSTRUCTIONS: SOFETY GLOSSES & GLOVES
	THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS TYPED OR PRINTED FULL NAME & SIGNATURE EPA
TER	ADDRESS 1516 BEECHWOOD AVENUE SERVICE ORDER NO.
RANSPOR	PHONE NO
-	NAME ANTERRA LO. DISOSAL METHOD
ACI	CITY, STATE, ZIP OXXXA CA 93030
	PHONE NO. 805 240 - 4646 TYPED OR PRINTED FULL NAME & SIGNATURE NO WAS A OUT DATE
	GEN OLDINEW LA TONS OIL WATER Shudge.
-	TRANS S B
_	C/Q RT/CD NWDF NONE DISCREPANCY



1516 Beechwood Avenue • Fullerton, CA 92835 Ph: (714) 822-5438 Fax: (714) 256-0822

Νº 1169 -

	NON-HAZARDOUS WASTE DATA FORM
ATOR	NAME SARIS REGIS / PLAGEL OIL ADDRESS 8802 BIGINE AV LD. CITY, STATE, ZIP IRVINE (A 986/2 PHONE NO. 0/4)572 357/ CONTAINERS: NO. / VOLUME / 00 BBL WEIGHT
TO BE COMPLETED BY GENERATOR	TYPE X TANK TRUCK DUMP TRUCK DRUMS CARTONS OTHER WASTE DESCRIPTION TONK BOTTOM 5 GENERATING PROCESS O/C PROJUCTION COMPONENTS OF WASTE PPM % COMPONENTS OF WASTE PPM % 1. TONK BOTTOM 5 6. 2. 6. 7. 8.
	PROPERTIES: pH Z
TER	NAME TMG TRANSPORTATION, INC. ADDRESS 1516 BEECHWOOD AVENUE SERVICE ORDER NO.
RANSFUR	PHONE NO. (714) 822-5438 TRUCK UNIT I.D. NO. (3) TYPED OR PRINTED FULL NAME & SIGNATURE PICK UP DATE 11 / 34 / 04 TYPED OR PRINTED FULL NAME & SIGNATURE DATE
	NAME ANTERRA LD.
Town Town	ADDRESS 1933 E WOOLEY Rd LANDFILL OTHER CITY, STATE, ZIP OWN rd (2) 93030 PHONE NO. 805 - 940 - 4646 TYPED OR PRINTED FULL NAME & SIGNATURE DATE GEN OLD NEW L A TONS VG CANALATE
**	TRANS S B DISCREPANCY



1516 Beechwood Avenue • Fullerton, CA 92835 Ph: (714) 822-5438 Fax: (714) 256-0822 Nº 1170

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR	NAME SAGS ROSS ROSS ROSS ROSS ROSS ROSS ROSS RO
TRANSPORTER	TYPED OR PRINTED FULL NAME & SIGNATURE DATE NAME TMG TRANSPORTATION, INC. EPA ID. NO. ADDRESS 1516 BEECHWOOD AVENUE SERVICE ORDER NO. CITY, STATE, ZIP FULLERTON, CA 92835 PICK UP DATE PHONE NO. (714) 822-5438 TYPED OR PRINTED FULL NAME & SIGNATURE DATE TYPED OR PRINTED FULL NAME & SIGNATURE DATE
TSDFACIETTY	NAME ANTERIA ADDRESS 1933 E WALEY RO DISOSAL METHOD ONE CITY, STATE, ZIP OXIJA 12 of TA 93030 PHONE NO. 805-340-4646 TYPED OR PRINTED FULL NAME & SIGNATURE OXIVATION DISOSAL METHOD OXIVATION TO SUBMITTED FULL NAME & SIGNATURE FRANS FRANS FRANS FRANS FRANS FRANCE TRANS FRANCE TRANCE T

APPENDIX C

TANK CERTIFICATE



TANK CERTIFICATION REPORT

		and the State of	TANK RE	MOYAL CERTIFICATE	#: 07462				
Date: 1//35/04									
	16.00			N/A					
B 4	22.00%	THE STATE OF	Site:	saker Leas	<u> </u>				
El El Addison			Address	of tank: 12500	5 Florence	s Ave.			
LIEB MARKET SEC.	EL E/A	KOP TES	.	D Sarta	E-Spring				
			Client:_	Reliable	Equipme	×+			
	- AAAK								
Stee / 451	250	BBL	N/A	ordeo	1 LEC	0%			
Steel AST	11	11	N/A		CE6	02			
Separator	60 E	BL	NA	Waterton	de LEC	0%_			
an MSA type 2A Explo tank(s) and no visible	sivity Meter (L contaminatio	EL of zero pe n has been o	ercent). A visua observed exce	,					
EXCEPTION: 5/19	H rus	4/611	resid	lue	WHO ARD OF IN	Wousta			



Industries Incorporated

11201 SANTA FE AVENUE - LYNWOOD, CALIFORNIA 90262 (310) 537-8142 • (323) 321-1710 • (310) 635-9942 FAX

February 3, 2004

Reliable Equipment Rental, Inc. 8331 Commonwealth Ave. Buena Park, CA 90621

Subject: Certificate of Destruction

This letter will serve has the Certificate of Destruction for the tanks, vessels, and piping removed by BHL for Reliable Equipment Rental at the Plegel Yard located on the corner of Florence and Bloomfield Santa Fe Springs, CA.

Material was sent to the following recycling facility: Hugo Neu Proler 901 New Dock Street Terminal Island, CA for remelting purposes only.

If you require any additional information please contact us.

Sincerely,

Stuart H. Lipsett President APPENDIX D

SAMPLING PROCEDURES

SAMPLING PROCEDURES

Soil Sampling Procedures

- 1. Discrete, relatively undisturbed soil samples were collected from the backhoe bucket and from the excavated stockpiled soil. Samples to be chemically analyzed for total petroleum hydrocarbons as gasoline (TPHg) and volatile organic compounds (VOCs) were collected in general accordance with EPA Method No. 5035. A plastic syringe was used to collect approximately 5 grams of soil from the backhoe bucket and stockpiled soil. The soil was ejected into a pre-weighed, laboratory supplied, 40-milliliter, volatile organic analysis (VOA) vial containing methanol. Two additional samples weighing approximately 5 grams each were collected using the syringe and ejected into vials containing sodium bisulfate. A new syringe was used for each sampling interval.
- The samples to be analyzed for the remaining constituents were collected in laboratory supplied 4-ounce, glass jars.
- The soil samples were placed in sealable plastic bags and stored in an ice chest, which was cooled, using bagged ice, to a temperature of approximately four degrees Celsius.

Sample Handling Procedures

 The samples were stored in an ice-filled cooler and delivered to an off-site state-certified laboratory following termination of field activities. Sample handling, transport, and delivery to the laboratory were documented using appropriate chain-of-custody protocol, including the use of chain-of-custody forms.

APPENDIX E

LABORATORY REPORTS

December 08, 2004

Paul Roberts Ninyo & Moore 475 Goddard Suite 200 Irvine, CA 92618

TEL: (949) 697-2198 FAX: (949) 753-7071

RE: Bloomfield II, 205372005

Attention: Paul Roberts



ELAP No.: 1838 NELAP No.: 02107CA CSDLAC No.: 10196

Workorder No.: 072617

Enclosed are the results for sample(s) received on November 30, 2004 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez

Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories

CLIENT:

Ninyo & Moore

Project:

Bloomfield II, 205372005

Lab Order:

072617

CASE NARRATIVE

Date: 08-Dec-04

All volatile analyses were performed using 5035 preservation requirements. Any high level dilutions were performed on a preserved methanol sample unless otherwise noted.

Analytical Comments for EPA 8270

The following samples were diluted due to sample matrix:

072617-001G 072617-004G 072617-007G 072617-010G

Advanced Technology Laboratories

CLIENT:

Ninyo & Moore

Client Sample ID: T1-1-2

Lab Order:

072617

Bloomfield II, 205372005

Collection Date: 11/30/2004

Date: 08-Dec-04

Project:

-	2617-001					Matrix:	SO	IL.	
Analyte Result		ult	PQL	Qual	Units		DF	Date	Analyzed
ICP METALS									
	(EPA 3050B)			E	PA 601	0B			
RunID: ICP6_041206	A QC Batch:	20458				PrepDate:		12/6/2004	Analyst: RQ
Antimony		ND	1.0		mg/Kg		1		12/6/2004
Arsenic		2.1	1.0		mg/Kg		1		12/6/2004
Bartum		42	1.0		mg/Kg		1		12/6/2004
Beryllium		ND	1.0		mg/Kg		1		12/6/2004
Cadmium		ND	1.0		mg/Kg		1		12/6/2004
Chromium		6.8	1.0		mg/Kg		1		12/6/2004
Cobalt		3.4	1.0		mg/Kg		1		12/6/2004
Copper		7.5	1.0		mg/Kg		1		12/6/2004
Lead		2.3	1.0		mg/Kg		1		12/6/2004
Molybdenum		ND	1.0		mg/Kg		1		12/6/2004
Nickel		5.8	1.0		mg/Kg		1		12/6/2004
Selenium		ND	1.0		mg/Kg		1		12/6/2004
Silver		ND	1.0		mg/Kg		1		12/6/2004
Thallium		ND	1.0		mg/Kg		1		12/6/2004
Vanadium		12	1.0		mg/Kg		1		12/6/2004
Zinc		15	1.0		mg/Kg		1		12/6/2004
HYDROCARBON CH	IAIN IDENTIFICATION								
	(LUFT)			E	PA 801	5B			
RunlD: GC7_041130	B QC Batch:	20414				PrepDate:		12/1/2004	Analyst: CBF
T/R Hydrocarbons: >0	232 2	600	200		mg/Kg		20		12/5/2004
T/R Hydrocarbons: C1	I0-C12	840	200		mg/Kg		20		12/5/2004
T/R Hydrocarbons: C		900	200		mg/Kg		20		12/5/2004
T/R Hydrocarbons: C	16-C22 5	000	200		mg/Kg		20		12/5/2004
T/R Hydrocarbons: C2	23-C32 6	700	200		mg/Kg		20		12/5/2004
GASOLINE RANGE	ORGANICS BY GC/FID								
				EP	A 8015	` '			
RunID: GC2_041201	A QC Batch:	E04VS				PrepDate:		11/30/2004	Analyst: JV
GRO		41	1.2		mg/Kg		1		12/1/2004
MERCURY BY COLI	VAPOR TECHNIQUE (EPA 7471)				PA 747	71 A	•		
RunID: AA1_041206/	,	20456		•		PrepDate:		12/6/2004	Analyst: JT
Mercury	, as balon.	ND	0.10		mg/Kg	•	1		12/6/2004
	Not Detected at the Barretter Y		0.10					ccepted recov	
•	- Not Detected at the Reporting L					outside accep		-	ay mus
J - Analyte detected below quantitiation limits									
B - Analyte detected in the associated Method				lank E - Value above quantitation range					

DO - Surrogate Diluted Out

Results are wet unless otherwise specified

H-Samples exceding holding time

Page 1 of 32

Advanced Technology Laboratories

CLIENT:

Ninyo & Moore

Lab Order:

072617

Bloomfield II, 205372005

Result

Project: Lab ID: Analyte

072617-001

Date: 08-Dec-04

Client Sample ID: T1-1-2

Collection Date: 11/30/2004

Matrix: SOIL

DF

Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

POL Qual Units

						-		
RunID:	MS3_041201A	QC Batch:	R	04VS193		PrepDate:	11/30/2004	Analyst: JPC
1,1,1,2	2-Tetrachioroethane		ND	250	μg/Kg	50		12/1/2004
1,1,1-	Trichloroethane		ND	250	μg/Kg	50		12/1/2004
1,1,2,2	2-Tetrachloroethane		ND	250	μg/Kg	50		12/1/2004
1,1,2-	Trichloroethane		ND	250	μg/Kg	50		12/1/2004
1,1-Di	chloroethane		ND	250	μg/Kg	50		12/1/2004
1,1-Di	chloroethene		ND	250	μg/Kg	50		12/1/2004
1,1-Di	chloropropene		ND	250	μ g/K g	50		12/1/2004
1,2,3	Trichlorobenzene		ND	250	μg/Kg	50		12/1/2004
1,2,3	Trichloropropane		МĎ	250	μg/Kg	50		12/1/2004
1,2,4	Trichlorobenzene		ND	250	μg/Kg	50		12/1/2004
1,2,4	Trimethylbenzene		ND	250	µg/Kg	50		12/1/2004
1,2-Di	bromo-3-chloropropane		ND	500	μ g /Kg	50		12/1/2004
1,2-Di	bromoethane		ND	250	μg/Kg	50		12/1/2004
1,2-Di	chlorobenzene		ND	250	μg/Kg	50		12/1/2004
1,2-Di	chloroethane		ND	250	μg/Kg	50		12/1/2004
1,2-Di	chloropropane		ND	250	μg/Kg	50		12/1/2004
1,3,5-	Trimethylbenzene		ND	250	μg/Kg	50		12/1/2004
1,3-Di	chlorobenzene		ND	250	μg/Kg	50		12/1/2004
1,3-DI	chloropropane		ND	250	μg/Kg	50		12/1/2004
1,4-Di	chlorobenzene		ND	250	μg/Kg	50		12/1/2004
2,2-Di	chloropropane		ND	250	µg/Kg	50		12/1/2004
2-Chlo	protoluene		ND	250	µg/Kg	50		12/1/2004
4-Chlo	protoluene		ND	250	μg/Kg	50		12/1/2004
4-Isop	ropyltoluene		ND	250	μg/Kg	50		12/1/2004
Benze	ene		ND	250	µg/Kg	50		12/1/2004
Bromo	obenzene		ND	250	μg/Kg	50		12/1/2004
Bromo	odichloromethane		ND	250	μg/Kg	50		12/1/2004
Bromo	oform		ND	250	μg/Kg	50		12/1/2004
Bromo	omethane		ND	250	μg/Kg	50		12/1/2004
Carbo	n tetrachloride		ND	250	μg/Kg	50		12/1/2004
Chlore	benzene		ИD	250	μg/Kg	50		12/1/2004
Chlore	oethane		ND	250	μg/Kg	50		12/1/2004
Chlore	oform		ND	250	μg/Kg	50		12/1/2004
Chlore	omethane		МD	250	μg/Kg	50		12/1/2004
cis-1,2	2-Dichloroethene		ND	250	μg/Kg	50		12/1/2004
cis-1,	3-Dichloropropene		ND	250	μg/Kg	50		12/1/2004

Qualifiers:

ND - Not Detected at the Reporting Limit

DO - Surrogate Diluted Out

J - Analyte detected below quantititation limits

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range H-Samples exceding holding time

Page 2 of 32

Results are wet unless otherwise specified

CLIENT:

Ninyo & Moore

Lab Order: 072617

Project: Bloomfield II, 205372005

Lab ID: 072617-001 Date: 08-Dec-04

Client Sample ID: T1-1-2

EPA 8260B

EPA 8270C

Collection Date: 11/30/2004 Matrix: SOIL.

Analyte	Result	PQL Qual Units	DF	Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

RunID:	MS3_041201A	QC Batch:	R04VS193		PrepDate:	11/30/2004	Analyst: JPC
Dibron	nochloromethane	N	D 250	μg/Kg	50		12/1/2004
Dibron	nomethane	N	D 250	μg/Kg	50		12/1/2004
Dichlo	rodifluoromethane	N	D 250	μ g/ Kg	50		12/1/2004

ND 250 μα/Kg 50 12/1/2004 Ethylbenzene 12/1/2004 ND 250 50 Hexachlorobutadiene μg/Kg 1900 250 µg/Kg 50 12/1/2004 Isopropylbenzene 12/1/2004 m.p-Xvlene ND 250 μg/Kg 50 ND 250 μg/Kg 50 12/1/2004 Methylene chloride 50 12/1/2004 n-But/Ibenzene 610 250 µg/Kg n-Propylbenzene 2800 250 μg/Kg 50 12/1/2004

9300 250 50 12/1/2004 Naphthalene μg/Kg ND 250 μ**g/K**g 50 12/1/2004 o-Xylene 250 50 12/1/2004 1300 sec-Butylbenzene µg/Kg ND 250 50 12/1/2004 Styrene µg/Kg ND 250 μ**g/**Kg 50 12/1/2004 tert-Butylbenzene ND 250 50 12/1/2004 Tetrachloroethene µg/Kg ND 250 50 12/1/2004 μg/Kg Toluene ND 250 50 12/1/2004 trans-1.2-Dichloroethene μg/Kg

250 50 12/1/2004 Trichloroethene ND µg/Kg Trichlorofluoromethane ND 250 μg/Kg 50 12/1/2004 ND 250 50 12/1/2004 Vinyl chloride μg/Kg

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS (EPA 3550R)

	(EFA 3330B)			LINGLING					
RunID	MS7_041202A	QC Batch:	20428			PrepDate:	12/2/2004	Analyst: JWS	
2-Me	ethylnaphthalene		ND	33000	µg/Кg	50		12/6/2004	
Acer	naphthene		ND	33000	μ g /Kg	50		12/6/2004	
Acer	aphthylene		ND	33000	μg/Kg	50		12/6/2004	
Anth	racene		ND	33000	μ g/K g	50		12/6/2004	
Benz	co(a)anthracene		ND	33000	µg∕Kg	50		12/6/2004	
Benz	o(a)pyrene		ND	33000	μg/Kg	50		12/6/2004	
Benz	o(b)fluoranthene		ND	33000	μg/Kg	50		12/6/2004	
Benz	o(g,h,i)perylene		ND	33000	μg/Kg	50		12/6/2004	
	to(k)fluoranthene		ND	33000	μg/Kg	50		12/6/2004	
Chry	sene		ND	33000	μg/Kg	50		12/6/2004	
Dibe	nz(a,h)anthracene		ND	33000	μg/Kg	50		12/6/2004	

Qualiflers:

ND - Not Detected at the Reporting Limit

DO - Surrogate Diluted Out

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range Page 3 of 32 H-Samples exceding holding time

Results are wet unless otherwise specified



Date: 08-Dec-04

CLIENT:

Ninyo & Moore

Bloomfield II, 205372005

Client Sample ID: T1-1-2

Lab Order:

072617

Collection Date: 11/30/2004

Project:

Matrix: SOIL

Lab ID:

072617-001

Analyte	Res	ult	PQL (Qual Units	DF	Date	Analyzed
SEMIVOLATILE ORGANIC	COMPOUNDS BY	GC/MS			· · · <u>-</u> · · · ·		
	(EPA 3550B)			EPA 827	'0C		
RunID: MS7_041202A	QC Batch:	20428	١,		PrepDate:	12/2/2004	Analyst: JWS
Fluoranthene		ND	33000	μg/Kg	50		12/6/2004
Fluorene		ND	33000	μg/Kg	50		12/6/2004
Indeno(1,2,3-cd)pyrene		ND	33000	μg/Kg	50		12/6/2004
Naphthalene		ND	33000	μgÆg	50		12/6/2004
Phenanthrene		ND	33000	μg/Kg	50		12/6/2004
Pyrana		NΠ	33000	na/Ka	50		12/6/2004

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank DO - Surrogate Diluted Out

H-Samples exceding holding time Results are wet unless otherwise specified

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits E - Value above quantitation range

Page 4 of 32



CLIENT: Ninyo & Moore

Lab Order: 072617

Project: Bloomfield II, 205372005

Lab ID: 072617-004 Date: 08-Dec-04

Client Sample ID: T1-2-2

Collection Date: 11/30/2004

Matrix: SOIL

Analyte	Result	PQL Qual Units	DF	Date Analyzed
ICP METALS				

Copper

Molybdenum

Lead

Nickel

Silver

Zinc

Selenlum

Thallium

Vanadium

RunID: GC7 041130B

		(EPA 3050B)			EPA 6010B		
RunID:	ICP6_041206A	QC Batch:	20458		Prept	ate:	12/6/2004
Antimo	iny		ND	1.0	mg/Kg	1	
Arsenio	3		ND	1.0	mg/Kg	1	
Barium	ı		70	1.0	mg/Kg	1	
Berylli.	ım		ND	1.0	mg/Kg	1	
Cadmi	um		ND	1.0	mg/Kg	1	
Chromi	ium		6.4	1.0	mg/Kg	1	
Cobalt			3.2	1.0	mg/Kg	1	

3.2 1.0 6.4 1.0 3.8 1.0 ND 1.0

4.7 1.0 ND 1.0 ND 1.0 ND

11

mg/Kg 1.0 1.0 1.0

mg/Kg mg/Kg mg/Kg mg/Kg

12/6/2004 12/6/2004 12/6/2004

Analyst: RQ 12/6/2004 12/6/2004 12/6/2004 12/6/2004 12/6/2004 12/6/2004

12/6/2004

12/6/2004

12/6/2004

12/6/2004

12/6/2004

12/6/2004

12/6/2004

HYDROCARBON CHAIN IDENTIFICATION (LUFT)

QC Batch: 20414

EPA 8015B

mg/Kg

mg/Kg

mg/Kg

mg/Kg

PrepDate:

12/1/2004 Analyst: CBR

T/R Hydrocarbons: >C32	160	10	mg/Kg	1	12/5/2004
T/R Hydrocarbons: C10-C12	ND	10	mg/Kg	1	12/5/2004
T/R Hydrocarbons: C13-C15	ND	10	mg/Kg	1	12/5/2004
T/R Hydrocarbons: C16-C22	31	10	mg/Kg	1	12/5/2004
T/R Hydrocarbons: C23-C32	180	10	mg/Kg	1	12/5/2004

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

Run(D:	GC2_041201A	QC Batch:	E04VS342		PrepDate:	11/30/2004	Analyst: JV
GRO		N	D 0.95	mg/Kg	1		12/1/2004

MERCURY BY COLD VAPOR TECHNIQUE (EPA 7471)

EPA 7471A

RunID: AA1_041206A	QC Batch:	20456		PrepDate:		12/6/2004	Analyst: JT
Mercury	N	D	0.10	mg/Kg	1		12/6/2004

Qualiflers: ND - Not Detected at the Reporting Limit

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits E - Value above quantitation range

H-Samples exceding holding time Page 5 of 32 Results are wet unless otherwise specified



CLIENT:

Ninyo & Moore

Client Sample ID: T1-2-2

Lab Order:

072617

Project:

Bloomfield II, 205372005

Collection Date: 11/30/2004

Lab ID:

072617-004

Matrix: SOIL

Analyte

Result

PQL Qual Units

DF

Date: 08-Dec-04

Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

	EPA 8260B
--	-----------

RunID:	MS3_041201A	QC Batch:	R04VS193	3		PrepDate:	11/30/2004	Analyst: JPC
1,1,1,2	2-Tetrachloroethane	N	D	4.4	μg/Kg	1		12/1/2004
1,1,1-1	Trichloroethane	N	D	4.4	μg/Kg	1		12/1/2004
1,1,2,2	2-Tetrachloroethane	N	D	4.4	µg/Kg	1		12/1/2004
1,1,2-7	Trichloroethane	N	D	4.4	µg/Kg	1		12/1/2004
1,1-Di	chloroethane	N	D	4.4	µg/Kg	1		12/1/2004
1,1-Di	chloroethene	N	D	4.4	μg/Kg	1		12/1/2004
1,1-Di	chloropropene	N	D	4.4	μg/Kg	1		12/1/2004
1,2,3-	Trichlorobenzene	N	D	4.4	µg /Kg	1		12/1/2004
1,2,3-	Trichloropropane	N	D	4.4	μg/Kg	1		12/1/2004
1,2,4-	Trichlorobenzene	N	D	4.4	µg/Kg	1		12/1/2004
1,2,4-	Trimethylbenzene	N	D	4.4 .	µg∕Kg	1		12/1/2004
1,2-Di	bromo-3-chloropropane	N	ID	8.8	μ g /Kg	1		12/1/2004
1,2-Di	bromoethane	N	ID	4.4	µg/Kg	1		12/1/2004
1,2-Di	chlorobenzene	N	ID	4.4	µg/Kg	1		12/1/2004
1,2-Di	chloroethane	N	ID	4.4	μg/Kg	1		12/1/2004
1,2-Di	chloropropane	N	ID	4.4	μg/Kg	1		12/1/2004
1,3,5-	Trimethylbenzene	N	D	4.4	μg/Kg	1		12/1/2004
1,3-Di	chlorobenzene	N	D	4.4	μg/Kg	1		12/1/2004
1,3-Di	chloropropane	. N	ID	4.4	μg/Kg	1		12/1/2004
1,4-Di	chlorobenzene	N	D	4.4	µg∕Кg	1	٦.	12/1/2004
2,2-Di	chloropropane	N	ID	4.4	μ g/K g	1		12/1/2004
2-Chlo	protoluene	N	ID	4.4	μ g /Kg	1		12/1/2004
4-Chlo	protoluene		ID	4.4	μg/Kg	1		12/1/2004
4-Isop	ropyltoluene	N	ID	4.4	μg/Kg	1		12/1/2004
Benze	ne	1	ID	4.4	µg/Кg	1		12/1/2004
Bromo	benzene		ID	4.4	μg/Kg	1		12/1/2004
Bromo	odichloromethane	1	ID	4.4	µg/Kg	1		12/1/2004
Bromo	oform	1	ID	4.4	µg/Kg	1		12/1/2004
Bromo	omethane		ID	4.4	μg/Kg	1 -		12/1/2004
Carbo	n tetrachloride	N	ID	4.4	µg/Kg	1		12/1/2004
Chloro	benzene		ID	4.4	µg/Kg	1		12/1/2004
Chloro	oethane		ID	4.4	μg/Kg	1		12/1/2004
Chloro	oform	1	ID	4.4	µg∕Kg	i		12/1/2004
Chioro	omethane	1	ID	4.4	μ g /Kg	1		12/1/2004
cis-1,2	2-Dichloroethene	1	ID	4.4	µд∕Кд	1		12/1/2004
cis-1,3	3-Dichloropropene		ID	4.4	μg/Kg	1		12/1/2004

Qualiflers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

DO - Surrogate Diluted Out

E - Value above quantitation range

Page 6 of 32 H-Samples exceding holding time



CLIENT: Ninyo & Moore

Lab Order: 072617

Project:

Analyte

Bloomfield II, 205372005

Result

Lab ID: 072617-004

Date: 08-Dec-04

DF

Date Analyzed

Client Sample ID: T1-2-2

Collection Date: 11/30/2004

Matrix: SOIL.

	 COMPOUNDS	DV 00510

EPA 8260B

POL Qual Units

RunID: MS3_041201A	QC Batch:	R04VS193	3	PrepDate:	11/30/2004	Analyst: JPC
Dibromochloromethane		1D	4.4	µg/Кg	1	12/1/2004
Dibromomethane	٨	ID O	4,4	µg/Кg	1	12/1/2004
Dichlorodifluoromethane	٨	ID O	4.4	μg/Kg	1	12/1/2004
Ethylbenzene	1	1D	4.4	µg/Кg	1	12/1/2004
Hexachlorobutadiene	١	ID O	4.4	μg/Kg	1	12/1/2004
Isopropylbenzene	٨	ID O	4.4	μg/Kg	1	12/1/2004
m,p-Xylene	•	1D	4.4	µ g ∕Кg	1	12/1/2004
Methylene chloride	1	1D	4.4	μ g/K g	1	12/1/2004
n-Butylbenzene	. 1	1D	4.4	μg/Kg	1	12/1/2004
n-Propylbenzene	1	1D	4.4	μg/Kg	1	12/1/2004
Naphthalene	1	1D	4.4	µg∕Кg	1	12/1/2004
o-Xylene	1	1D	4.4	µ g∕ Кg	1	12/1/2004
sec-Butylbenzene	1	4D	4.4	µg/Кg	1	12/1/2004
Styrene	1	4D	4.4	μ g/K g	1	12/1/2004
tert-Butylbenzene	1	4D	4.4	µg∕Кд	1	12/1/2004
Tetrachloroethene	•	4D	4.4	µg/Kg	1	12/1/2004
Toluene	•	4D	4.4	μg/Kg	1	12/1/2004
trans-1,2-Dichloroethene	1	4D	4.4	µg/Kg	1	12/1/2004
Trichloroethene	•	ND	4.4	μg/Kg	1	12/1/2004
Trichlorofluoromethane	1	ND	4.4	μg/Kg	1	12/1/2004
Vinyl chloride	•	1D	4.4	μg/Kg	1	12/1/2004

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS (EPA 3550B)

EPA 8270C

RunID: MS7_041202A	QC Batch:	20428		PrepDate:	12/2/2004 Analyst: JWS
2-Methylnaphthalene	. NI	3300	μg/Kg	10	12/3/2004
Acenaphthene	N	3300	μg/Kg	10	12/3/2004
Acenaphthylene	N	3300	μg/Kg	10	12/3/2004
Anthracene	N	D 3300	μg/Kg	10	12/3/2004
Benzo(a)anthracene	N	3300	μg/Kg	10	12/3/2004
Benzo(a)pyrene	N	D 3300	μg/Kg	10	12/3/2004
Benzo(b)fluoranthene	N	D 3300	μ g /Kg	101	12/3/2004
Benzo(g,h,i)perylene	N	D 3300	μg/Kg	10	12/3/2004
Benzo(k)fluoranthene	N	D 3300	μg/Kg	10	12/3/2004
Chrysene	N	D 3300	μg/Kg	10	12/3/2004
Dibenz(a,h)anthracene	N	D 3300	μg/Kg	10	12/3/2004

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 7 of 32 H-Samples exceding holding time



CLIENT: Ninyo & Moore

Lab Order: 072617

Project: Bloomf

Bloomfield II, 205372005

Lab ID:

Phenanthrene

Pyrene

072617-004

Client Sample ID: T1-2-2

Collection Date: 11/30/2004

Date: 08-Dec-04

10

12/3/2004

12/3/2004

Matrix: SOIL

Analyte	Result	PQL Q	ual Units	DF	Date .	Analyzed
SEMIVOLATILE ORGANIC C						
	(EPA 3550B)		EPA 8270C			
RunID: MS7_041202A	QC Batch: 20428	3	Pre	pDate:	12/2/2004	Analyst: JWS
Fluoranthene	ND	3300	μg/Kg	10		12/3/2004
Fluorene	ND	3300	μg/Kg	10		12/3/2004
Indeno(1,2,3-cd)pyrene	ND	3300	μg/Kg	10		12/3/2004
Naphthalene	ND	3300	μα/Κα	10		12/3/2004

3300

3300

μg/Kg

ND

ND

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range H-Samples exceding holding time

Page 8 of 32





CLIENT:

Ninyo & Moore

Client Sample ID: T1-3-2

Lab Order:

072617

Bloomfield II. 205372005

Collection Date: 11/30/2004

Date: 08-Dec-04

Project	: Bloomfield	II, 205372005				Соцес	ion Date:	11/.	30/2004	
Lab ID	072617-007						Matrix:	SO	IL	
Analyte	е	Re	sult	PQL	Qual	Units		DF	Date	Analyzed
CP ME	TALS									
		(EPA 3050B)			E	PA 601	0B			
RunID:	ICP6_041206A	QC Batch:	20458				PrepDate:		12/6/2004	Analyst: RQ
Antimo	ony		ND	1.0		mg/Kg		1		12/6/2004
Arseni	c		ND	1.0		mg/Kg		1		12/6/2004
Barium	n		140	1.0		mg/Kg		1		12/6/2004
Beryllia	um		ND	1.0		mg/Kg		1		12/6/2004
Cadmi	ium		ND	1.0		mg/Kg		1		12/6/2004
Chrom	nlum		5.5	1.0		mg/Kg		1		12/6/2004
Cobalt	t		2.8	1.0		mg/Kg		1		12/6/2004
Сорре	er		6.4	1.0		mg/Kg		1		12/6/2004
Lead			6.2	1.0		mg/Kg		1		12/6/2004
Molybo	denum		ND	1.0		mg/Kg		1		12/6/2004
Nickel			4.2	1.0	,	mg/Kg		1		12/6/2004
Seleni	um		ND	1.0		mg/Kg		1		12/6/2004
Silver			ND	1.0		mg/Kg		1		12/6/2004
Thalliu	ım		ND	1.0		mg/Kg		1		12/6/2004
Vanad	lium		9.9	1.0		mg/Kg		1		12/6/2004
Zinç			16	1.0		mg/Kg		1		12/6/2004
HYDRO	CARBON CHAIN IDE	NTIFICATION								
		(LUFT)			E	PA 801	5B			
tunID:	GC7_041130B	QC Batch:	20414				PrepDate:		12/1/2004	Analyst: CBF
T/R Hy	ydrocarbons: >C32		210	10		mg/Kg		1		12/5/2004
T/R Hy	ydrocarbons: C10-C12		ND	10		mg/Kg		1		12/5/2004
T/R Hy	ydrocarbons: C13-C15		ND	10		mg/Kg		1		12/5/2004
T/R Hy	ydrocarbons: C16-C22		35	10		mg/Kg		1		12/5/2004
T/R H	ydrocarbons: C23-C32		220	10		mg/Kg		1		12/5/2004
SASOL	INE RANGE ORGANIC	CS BY GC/FID								
					EP	A 8015	B(M)			
RunID:	GC2_041202B	QC Batch:	E04V	5344			PrepDate:		11/30/2004	Analyst: JV
GRO			ND	0.98		mg/Kg		1		12/3/2004
MERC	JRY BY COLD VAPOR								•	
		(EPA 7471)			E	PA 747	1A			
tunID:	AA1_041206A	QC Batch:	20456	i			PrepDate:		12/6/2004	Analyst: JT

0.10 12/6/2004 Mercury

Qualifiers:

ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- DO Surrogate Diluted Out
- S Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits
- E Value above quantitation range
- Page 9 of 32 H-Samples exceding holding time



CLIENT: Ninyo & Moore

Lab Order: 072617

Project: Bloomfield II, 205372005 Lab ID:

072617-007

Date: 08-Dec-04

Client Sample ID: T1-3-2

Collection Date: 11/30/2004

Matrix: SOIL

Analyte	Result	PQL Qual Units	DF	Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

F	RunID:	MS3_041201A	QC Batch:		R04VS193		PrepDate:	11/30/2004	Analyst: JPC
	1,1,1,2	2-Tetrachloroethane		ND	5.7	μg/Kg	1		12/1/2004
	1,1,1-7	Trichloroethane		ND	5.7	μg/Kg	1		12/1/2004
	1,1,2,2	2-Tetrachloroethane		ND	5.7	μg/Kg	1		12/1/2004
	1,1,2-7	Trichloroethane		ND	5.7	μg/Kg	1		12/1/2004
	1,1-Dk	chloroethane		ND	5.7	μ g/ Kg	1		12/1/2004
	1,1-Die	chloroethene		ND	5.7	µg/Кg	1		12/1/2004
	1,1-Die	chloropropene		ND	5.7	μg/Kg	1		12/1/2004
	1,2,3-7	Trichlorobenzene		ND	5.7	μg/Kg	1		12/1/2004
	1,2,3-7	Trichloropropane		ND	5.7	μg/Kg	1		12/1/2004
	1,2,4-7	Trichlorobenzene		ND	5.7	μg/Kg	1		12/1/2004
	1,2,4-7	Trimethylbenzene		ND	5.7	μg/Kg	1		12/1/2004
	1,2-Dil	bromo-3-chloropropane		ND	11	μg/Kg	1		12/1/2004
	1,2-Dil	bromoethane		ND	5.7	µg/Kg	1		12/1/2004
	1,2-Di	chlorobenzene		ND	5.7	μ g/K g	1		12/1/2004
	1,2-Di	chloroethane		ND	5.7	μg/Kg	1		12/1/2004
	1,2-Di	chloropropane		ND	5.7	μ g/ Kg	1		12/1/2004
	1,3,5-	Trimethylbenzene		ND	5.7	μ g /Kg	1		12/1/2004
	1,3-Die	chlorobenzene		ND	5.7	μ g /Kg	1		12/1/2004
	1,3-Die	chloropropane		ND	5.7	μg/Kg	1		12/1/2004
	1,4-Die	chlorobenzene		ND	5.7	μg/Kg	1		12/1/2004
	2,2-Die	chloropropane		ND	5.7	µg/Кg	1		12/1/2004
	2-Chlo	rotoluene		ND	5.7	μ g /Kg	1		12/1/2004
	4-Chlo	rotoluene		ND	5.7	μ g /Kg	1		12/1/2004
	4-Isop	ropyltoluene		ND	5.7	μg/Kg	1		12/1/2004
	Benze	ne		ND	5.7	μ g /Kg	1		12/1/2004
	Bromo	benzene		ND	5.7	μg/Kg	1		12/1/2004
	Bromo	dichloromethane		ND	5.7	μ g/ Kg	1		12/1/2004
	Bromo	form		ND	5.7	μg/Kg	1		12/1/2004
	Bromo	methane		ND	5.7	µg/Kg	1		12/1/2004
	Carbo	n tetrachloride		ND	5.7	μg/Kg	1		12/1/2004
	Chloro	benzene		ND	5.7	μ g /Kg	1		12/1/2004
	Chloro	ethane		ND	5.7	μ g /Kg	1		12/1/2004
	Chloro	form		ND	5.7	μg/Kg	1'		12/1/2004
	Chloro	methane		ND	5.7	μg/Kg	1		12/1/2004
	cis-1,2	2-Dichloroethene		ND	5.7	μg/Kg	1		12/1/2004

Qualifiers: ND - Not Detected at the Reporting Limit

DO - Surrogate Diluted Out

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

5.7

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

E - Value above quantitation range

H-Samples exceding holding time

μg/Kg

Results are wet unless otherwise specified







cls-1,3-Dichloropropene

12/1/2004

Page 10 of 32

Date: 08-Dec-04

CLIENT:

Ninyo & Moore

Client Sample ID: T1-3-2

Lab Order:

072617

Bloomfield II, 205372005

Result

Collection Date: 11/30/2004

Project: Lab ID:

072617-007

Matrix: SOIL

POL Qual Units

Analyte

DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

					EPA 826	60B		
RuniD:	MS3_041201A	QC Batch:	R04VS193			PrepDate:		Analyst: JPC
Dibrom	ochloromethane		ID	5.7	μ g/ Kg	1		12/1/2004
Dibrom	omethane		ID	5.7	μg/Kg	1		12/1/2004
Dichlor	odifluoromethane	P	I D	5.7	μg/Kg	1		12/1/2004
Ethylbe	enzene		ID	5.7	μg/Kg	1		12/1/2004
Hexact	nlorobutadiene	1	ID	5.7	μ g/ Kg	1		12/1/2004
Isoprop	ylbenzene	1	ID	5.7	μg/Kg	1		12/1/2004
m,p-Xy	lene	1	ID	5.7	μg/Kg	1		12/1/2004
Methyl	ene chloride		ID	5.7	μ g/K g	1		12/1/2004
n-Butyl	benzene	1	ID	5.7	μg/Kg	1		12/1/2004
n-Prop	ylbenzene		ID	5.7	μ g/K g	1		12/1/2004
Naphth	alene	r	ID	5.7	, μg/Kg	1		12/1/2004
o-Xyler	ne		ID	5.7	μg/Kg	1		12/1/2004
sec-Bu	tylbenzene		ID	5.7	μg/K g	1		12/1/2004
Styren	9		ID	5.7	μg/Kg	1		12/1/2004
tert-Bu	tylbenzene	1	lD .	5.7	μg/Kg	1		12/1/2004
Tetracl	nloroethene		ID	5.7	μg/Kg	1		12/1/2004
Toluen	е		ID	5.7	μg/Kg	1		12/1/2004
trans-1	,2-Dichloroethene	1	ID	5.7	μg/Kg	1		12/1/2004
Trichlo	roethene	•	ID	5.7	μg/Kg	1		12/1/2004
Trichlo	rofluoromethane	1	ID	5.7	μg/Kg	1		12/1/2004
Vinyl d	hloride		ID	5.7	μ g /Kg	1		12/1/2004

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

	· ,						
RunID: MS7_041202A	QC Batch:	20428			PrepDate:	12/2/2004	Analyst: JWS
2-Methylnaphthalene	1	ID	3300	μg/Kg	10		12/3/2004
Acenaphthene	N	1D	3300	μg/Kg	10		12/3/2004
Acenaphthylene		ID O	3300	μg/Kg	10		12/3/2004
Anthracene	N	ID	3300	μg/Kg	10		12/3/2004
Benzo(a)anthracene		ID	3300	μg/Kg	10		12/3/2004
Benzo(a)pyrene	. N	ID	3300	μg/Kg	10		12/3/2004
Benzo(b)fluoranthene		ID	3300	µg⁄Kg	10,		12/3/2004
Benzo(g,h,i)perylene		ID	3300	μg/Kg	10		12/3/2004
Benzo(k)fluoranthene		ID	3300	μg/Kg	10		12/3/2004
Chrysene		ID .	3300	μg/Kg	10		12/3/2004
Dibenz(a,h)anthracene		ID	3300	μg/Kg	10		12/3/2004

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

(EPA 3550B)

E - Value above quantitation range

DO - Surrogate Diluted Out

H-Samples exceeding holding time Page 11 of 32

Results are wet unless otherwise specified



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EPA 8270C

Date: 08-Dec-04

CLIENT:

Ninyo & Moore

Client Sample ID: T1-3-2

Lab Order:

072617

Project:

Bloomfield II, 205372005

Collection Date: 11/30/2004

Lab ID:

072617-007

Matrix: SOIL

Analyt	Analyte		ult	PQL Q	ual Units	DF	Date Analyzed	
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS (EPA 3550B)					EPA 827	0C		
RunID:	MS7_041202A	QC Batch:	20428			PrepDate:	12/2/2004	Analyst: JWS
Fluora	anthene		ND	3300	µg/Kg	10		12/3/2004
Fluore	ene		ND	3300	μg/Kg	10		12/3/2004
Inden	o(1,2,3-cd)pyrene		ND	3300	μg/Kg	10		12/3/2004
Naphi	halene		ND	3300	μg/Kg	10		12/3/2004
Phena	anthrene		ND	3300	μg/Kg	10		12/3/2004
Pyren	e		ND	3300	μg/Kg	10		12/3/2004

Qualiflers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank DO - Surrogate Diluted Out

Results are wet unless otherwise specified

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range H-Samples exceding holding time

Page 12 of 32



CLIENT: Lab Order: Ninyo & Moore

072617

Project:

Bloomfield II, 205372005

Lab ID:

072617-010

Date: 08-Dec-04

Client Sample ID: T2-1-2

Collection Date: 11/30/2004

Matrix: SOIL

Analyte Result POL Qual Units DF Date Analyzed

ICP METALS

	(EPA 3050B)		EPA 6010B		
RunID: ICP6_041206A	QC Batch:	20458	Pr	epDate: 12	/6/2004 Analyst: RQ
Antimony	N	D 1.0	mg/Kg	1	12/6/2004
Arsenic	N	D 1.0	mg/Kg	1	12/6/2004
Barium	4	2 1.0	mg/Kg	1	12/6/2004
Beryllium	N	D 1.0	mg/Kg	1	12/6/2004
Cadmium	N	D 1.0	mg/Kg	1	12/6/2004
Chromium	6.	0 1.0	mg/Kg	1	12/6/2004
Cobalt	3.	1 1.0	mg/Kg	1	12/6/2004
Copper	6.	6 1.0	mg/Kg	1	12/6/2004
Lead	1.	8 1.0	mg/Kg	. 1	12/6/2004
Molybdenum	N	D 1.0	mg/Kg	1	12/6/2004
Nickel	4.	7 1.0	mg/Kg	1	12/6/2004
Selenium	N	D 1.0	mg/Kg	1	12/6/2004
Silver	N	D 1.0	mg/Kg	1	12/6/2004
Thallium	N	D 1.0	mg/Kg	1	12/6/2004
Vanadium	1	0 1.0	mg/Kg	1	12/6/2004
Zinc	1	3 1.0	mg/Kg	1	12/6/2004

HYDROCARBON CHAIN IDENTIFICATION

CHAN	IDC14	ILIONIO
		(LUFT)

EPA 8015B

RuniD: GC7_041130B	QC Batch: 20414		Prep	Date: 12/1/200	4 Analyst: CBR
T/R Hydrocarbons: >C32	890	50	mg/Kg	5	12/7/2004
T/R Hydrocarbons: C10-C12	250	50	mg/Kg	5	12/7/2004
T/R Hydrocarbons: C13-C15	590	50	mg/Kg	5	12/7/2004
T/R Hydrocarbons: C16-C22	1900	50	mg/Kg	5	12/7/2004
T/R Hydrocarbons: C23-C32	2800	50	mg/Kg	5	12/7/2004

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RuniD:	GC2_041201A	QC Batch:	E04VS342		PrepDate:	11/30/2004	Analyst: JV
GRO			15	1.1	mg/Kg	1	12/1/2004

MERCURY BY COLD VAPOR TECHNIQUE

(EPA 7471)

EPA 7471A

RunID:	AA1_041206A	QC Batch:	20456		PrepDa	ite:	12/6/2004	Analyst: JT	
Mercur	y	N)	0.10	mg/Kg	1		12/6/2004	
Qualifie	rs: ND - Not Detected a	t the Reporting Lim	it		S - Spike Recovery	outside ac	cepted recove	ry limits	

Qualifiers:

ND - Not Detected at the Reporting Limit

DO - Surrogate Diluted Out

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- R RPD outside accepted recovery limits
- E Value above quantitation range H-Samples exceding holding time

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CLIENT: Ninyo & Moore

Lab Order: 072617

Bloomfield II, 205372005

Project: Lab ID:

072617-010

VOLATILE ORGANIC COMPOUNDS BY GC/MS

Date: 08-Dec-04

Client Sample ID: T2-1-2

Collection Date: 11/30/2004 Matrix: SOIL

Result PQL Qual Units DF Date Analyzed Analyte

				EPA 8260B			
RuniD: MS3_041201A	QC Batch:	R04VS	193	Pre	pDate: 11	/30/2004 Analyst: JP	C
1,1,1,2-Tetrachloroethane	N	D	5.0	μg/Kg	1	12/1/2004	
1,1,1-Trichloroethane	N	D	5.0	μg/Kg	1	12/1/2004	
1,1,2,2-Tetrachloroethane	N	D	5.0	μg/Kg	1	12/1/2004	
1,1,2-Trichloroethane	N	D	5.0	μg/Kg	1	12/1/2004	
1,1-Dichloroethane	N	D	5.0	μg/Kg	1	12/1/2004	
1,1-Dichloroethene	N	D	5.0	μg/Kg	1	12/1/2004	
1,1-Dichloropropene	N	D	5.0	μg/Kg	1	12/1/2004	
1,2,3-Trichlorobenzene	N	D	5.0	μ g/ Kg	1	12/1/2004	
1,2,3-Trichloropropane	N	D	5.0	μ g/K g	1	12/1/2004	
1,2,4-Trichlorobenzene	N	ID	5.0	μg/Kg	1	12/1/2004	
1,2,4-Trimethylbenzene	25	50	5.0	µg/Кg	1	12/1/2004	
1,2-Dibromo-3-chloropropane	N	D	9.9	μg/Kg	1	12/1/2004	
1,2-Dibromoethane	N	D	5.0	μg/Kg	1	12/1/2004	
1,2-Dichlorobenzene	N	ID	5.0	μ g/K g	1	12/1/2004	
1,2-Dichloroethane	N	ID	5.0	μg/Kg	1	12/1/2004	
1,2-Dichloropropane	N	D	5.0	μg/Kg	1	12/1/2004	
1,3,5-Trimethylbenzene	2	88	5.0	μg/Kg	1	12/1/2004	
1,3-Dichlorobenzene	N	D	5.0	μg/Kg	1	12/1/2004	
1,3-Dichloropropane	N	D	5.0	μg/Kg	1	12/1/2004	
1,4-Dichlorobenzene	N	D	5.0	μg/Kg	1	12/1/2004	
2,2-Dichloropropane	N	ID	5.0	μg/Kg	1	12/1/2004	
2-Chlorotoluene	N	ID	5.0	μg/Kg	1	12/1/2004	
4-Chlorotoluene		ID	5.0	μ g/ Kg	1	12/1/2004	
4-Isopropyltoluene		17	5.0	μ g/K g	1	12/1/2004	
Benzene		Ð	5.0	μ g/ Kg	1	12/1/2004	
Bromobenzene		ID	5.0	μg/Kg	1	12/1/2004	
Bromodichloromethane		ID	5.0	μ 9 /Kg	1	12/1/2004	
Bromoform		ID	5.0	μg/Kg	1	12/1/2004	
Bromomethane		ID	5.0	µg/Kg	1	12/1/2004	
Carbon tetrachloride	1	ID	5.0	µg/Kg	1	12/1/2004	
Chlorobenzene	N	ID	5.0	μ g/K g	1	12/1/2004	
Chloroethane		ID	5.0	μg/Kg	1,	12/1/2004	
Chloroform		ID	5.0	μg/Kg	1	12/1/2004	
Chloromethane	N	ID	5.0	μ g/Kg	1	12/1/2004	
cis-1,2-Dichloroethene		ID	5.0	μg/Kg	1	12/1/2004	
cis-1,3-Dichloropropene		ID	5.0	μ g/K g	1	12/1/2004	

Qualiflers:

ND - Not Detected at the Reporting Limit

DO - Surrogate Diluted Out

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blauk

H-Samples exceding holding time

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits E - Value above quantitation range

Page 14 of 32

Results are wet unless otherwise specified



Advanced Technology

CLIENT: Ninyo & Moore

072617

Bloomfield II, 205372005

Lab ID: 072617-010

Lab Order:

Project:

Analyte

Result

Collection Date: 11/30/2004 Matrix: SOIL

Client Sample ID: T2-1-2

Date: 08-Dec-04

DF

Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

PQL Qual Units

RunID:	MS3_041201A	QC Batch:	R04VS	193	Pre	Date: 1	1/30/2004	Analyst: JPC
Dibron	nochloromethane	1	I D	5.0	μg/Kg	1		12/1/2004
Dibron	nomethane	•	ID O	5.0	μg/Kg	1		12/1/2004
Dichlo	rodifluoromethane	1	1D	5.0	μg/Kg	1		12/1/2004
Ethylb	enzene		16	5.0	μ g/ Kg	1		12/1/2004
Hexac	hlorobutadiene	١	ID O	5.0	μg/Kg	1		12/1/2004
Isopro	pylbenzene		33	5.0	μg/Kg	1		12/1/2004
m,p-X	ylene		59	5.0	μ g/ Kg	1		12/1/2004
Methy	lene chloride	1	(D	5.0	μg/Kg	1		12/1/2004
n-Buty	lbenzene		12	5.0	μg/Kg	1		12/1/2004
n-Prop	ylbenzene		45	5.0	μ g/Kg	1		12/1/2004
Napht	halene	1	10	5.0	μg/Kg	1		12/1/2004
o-Xyle	ne	١	ID	5.0	μg/Kg	1		12/1/2004
sec-Bu	utylbenzene		17	5.0	µg/Kg	. 1		12/1/2004
Styren	e		ID OI	5.0	μg/Kg	1		12/1/2004
tert-Bu	utylbenzene	•	1D	5.0	, μg/Kg	1		12/1/2004
Tetrac	hloroethene	1	(D	5.0	μg/Kg	1		12/1/2004
Toluer	ne	1	ID .	5.0	µg/Kg	1		12/1/2004
trans-1	1,2-Dichloroethene	1	ID	5.0	μ g /Kg	1		12/1/2004
Trichlo	proethene	1	ID OI	5.0	μg/Kg	1		12/1/2004
Trichlo	profluoromethane		ID	5.0	μ g /Kg	1		12/1/2004
Vinyl o	zhloride	1	ID.	5.0	ug/Kg	1		12/1/2004

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

(EPA 3550B)

EPA 8270C

RunID: MS7_041202A	QC Batch:	20428	3		PrepDate:	12/2/2004 Analyst:	JWS
2-Methylnaphthalene		ND	16000	μg/Kg	50	12/3/200	14
Acenaphthene		ND	16000	µg∕Kg	50	12/3/200)4
Acenaphthylene		ND	16000	μ g/ Kg	50	12/3/200	14
Anthracene		ND	16000	μg/Kg	50	12/3/200	14
Benzo(a)anthracene		ND	16000	µg∕Kg	50	12/3/200)4
Benzo(a)pyrene		ND	16000	µg/Kg	50	12/3/200)4
Benzo(b)fluoranthene		ND	16000	μg/Kg	50	12/3/200)4
Benzo(g,h,i)perylene		ND	16000	μg/Kg	50	12/3/200)4
Benzo(k)fluoranthene		ND	16000	µg/Kg	50	12/3/200)4
Chrysene		ND	16000	μg/Kg	50	12/3/200)4
Dibenz(a,h)anthracene		ND	16000	µg/Kg	50	12/3/200)4

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

E - Value above quantitation range H-Samples exceding holding time

Page 15 of 32



S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

CLIENT: Ninyo & Moore Client Sample ID: T2-1-2

Lab Order: 072617

Project: Bloomfield II, 205372005

Matrix: SOIL 072617-010 Lab ID:

Result POL Qual Units DF Date Analyzed Analyte

SEMIVO	LATILE ORGANIC	COMPOUNDS BY ((EPA 3550B)		EPA 827	70C			
RuniD:	MS7_041202A	QC Batch:	20428			PrepDate:	12/2/2004	Analyst: JWS
Fluorar	nthene		ND	16000	μg/Kg	50		12/3/2004
Fluorer	ie ·		ND	16000	μ g /Kg	50		12/3/2004
Indeno	(1,2,3-cd)pyrene		ND	16000	μg/Kg	50		12/3/2004
Naphth	alene		ND	16000	μg/Kg	50		12/3/2004
Phenar	nthrene		ND	16000	μ g/ Kg	50		12/3/2004
Pyrene			ND	16000	µg/К g	50		12/3/2004

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

Date: 08-Dec-04

Collection Date: 11/30/2004

R - RPD outside accepted recovery limits

E - Value above quantitation range Page 16 of 32 H-Samples exceding holding time



Date: 08-Dec-04

CLIENT:

Ninyo & Moore

Lab Order:

072617

Client Sample ID: T2-2-2

Project:

Bloomfield II, 205372005

Collection Date: 11/30/2004

Lab ID:

072617-013

Matrix: SOIL

Analyte Result PQL Qual Units Date Analyzed

CP METALS							
	(EPA 3050B)			EPA 6010B			
tunID: ICP6_041206A	QC Batch:	20458	3	Pre	epDate:	12/6/2004	Analyst: RC
Antimony	1	D	1.0	mg/Kg	1		12/6/2004
Arsenic		ΝD	1.0	mg/Kg	1		12/6/2004
Barium		50	1.0	mg/Kg	1		12/6/2004
Beryllium	1	ΝD	1.0	mg/Kg	1		12/6/2004
Cadmium	1	ND	1.0	mg/Kg	1		12/6/2004
Chromium		7.7	1.0	mg/Kg	1		12/6/2004
Cobalt		3.9	1.0	mg/Kg	1		12/6/2004
Copper		3.3	1.0	mg/Kg	1		12/6/2004
Lead		2.1	1.0	mg/Kg	1		12/6/2004
Molybdenum		ND	1.0	mg/Kg	1		12/6/2004
Nickel		5.1	1.0 .	mg/Kg	1		12/6/2004
Selenium		ND	1.0	mg/Kg	1		12/6/2004
Silver		ND	1.0	mg/Kg	1		12/6/2004
Thallium		ND	1.0	mg/Kg	1		12/6/2004
Vanadium		13	1.0	mg/Kg	1		12/6/2004
Zinc		15	1.0	mg/Kg	1		12/6/2004

HYDROCARBON CHAIN IDENTIFICATION

(LUFT)	EPA 8015B

RunID: GC7_041130B	QC Batch: 20414	4	Prep	Date: 12/1/20	004 Analyst: CBR
T/R Hydrocarbons: >C32	19	10	mg/Kg	1	12/5/2004
T/R Hydrocarbons: C10-C12	16	10	mg/Kg	1	12/5/2004
T/R Hydrocarbons: C13-C15	35	10	mg/Kg	1	12/5/2004
T/R Hydrocarbons: C16-C22	69	10	mg/Kg	1	12/5/2004
T/R Hydrocarbons: C23-C32	66	10	mg/Kg	1	12/5/2004

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID:	GC2_041201A	QC Batch:	E04VS342		PrepDate:		11/30/2004	Analyst: JV
GRO		N	D	1.2	ma/Ka	1		12/1/2004

GRO	ND	1.2	mg/Kg	1	12/1/2004
MEDCHBY BY COLD MARON TECHNIQUE					

RunID:	AA1_041206A	QC Batch:	20456		PrepDate:	1	12/6/2004	Analyst: JT	
Mercur	у		ND	0.10	mg/Kg	1		12/6/2004	

Qualifiers:

- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits
- J Analyte detected below quanititation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range

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DO - Surrogate Diluted Out

H-Samples exceding holding time

EPA 7471A

QC Batch:

Ninyo & Moore 072617

Lab Order:

RunID: MS3_041201A

CLIENT:

Project:

Bloomfield II, 205372005

Lab ID: 072617-013 Date: 08-Dec-04

11/30/2004 Analyst: JPC

Client Sample ID: T2-2-2

PrepDate:

Collection Date: 11/30/2004 Matrix: SOIL

Analyte Result PQL Qual Units DF Date Analyzed

R04VS193

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

1,1,1,2-Tetrachloroethane	ND	5.4	μg/Kg	1	12/1/2004
1,1,1-Trichloroethane	ND	5.4	μ g /Kg	1	12/1/2004
1,1,2,2-Tetrachloroethane	ND	5.4	μg/Kg	1	12/1/2004
1,1,2-Trichloroethane	ND	5.4	μg/Kg	1	12/1/2004
1,1-Dichloroethane	ND	5.4	μg/Kg	1	12/1/2004
1,1-Dichloroethene	ND	5.4	μg/Kg	1	12/1/2004
1,1-Dichloropropene	ND	5.4	μ g/ Kg	1	12/1/2004
1,2,3-Trichlorobenzene	ND	5.4	μ g /Kg	1	12/1/2004
1,2,3-Trichloropropane	ND	5.4	μg/Kg	1	12/1/2004
1,2,4-Trichlorobenzene	ND	5.4	μ g/ Kg	1	12/1/2004
1,2,4-Trimethylbenzene	ND	5.4	μ g/K g	1	12/1/2004
1,2-Dibromo-3-chloropropane	ND	11	μg/Kg	1	12/1/2004
1,2-Dibromoethane	ND	5.4	μg/Kg	1	12/1/2004
1,2-Dichlorobenzene	ND	5.4	μg/Kg	1	12/1/2004
1,2-Dichloroethane	ND	5.4	μ g/K g	1	12/1/2004
1,2-Dichloropropane	ND	5.4	μ g /Kg	1	12/1/2004
,3,5-Trimethylbenzene	ND	5.4	μg/Kg	1	12/1/2004
,3-Dichlorobenzene	ND	5.4	µg/Kg	1	12/1/2004
1,3-Dichloropropane	ND	5.4	μg/Kg	1	12/1/2004
,4-Dichlorobenzene	ND	5.4	μg/Kg	1	12/1/2004
,2-Dichloropropane	ND	5.4	µg/Kg	1	12/1/2004
2-Chlorotoluene	ND	5.4	μg/Kg	1	12/1/2004
-Chlorotoluene	ND	5.4	μg/Kg	1	12/1/2004
l-Isopropyltoluene	ND	5.4	μg/Kg	1	12/1/2004
Benzene	ND	5.4	μg/Kg	1	12/1/2004
Bromobenzene	ND	5.4	μg/Kg	1	12/1/2004
Bromodichloromethane	ND	5.4	μ g/K g	1	12/1/2004
Bromoform	ND	5.4	μg/Kg	1	12/1/2004
Bromomethane	ND	5.4	μg/Kg	1	12/1/2004
Carbon tetrachloride	ND	5.4	μ g/K g	1	12/1/2004
Chlorobenzene	ND	5.4	μ g /Kg	1	12/1/2004
Chloroethane	ND	5.4	μ g /Kg	1	12/1/2004
Chloroform	ND	5.4	μg/Kg	1 .	12/1/2004
Chloromethane	ND	5.4	µg/Kg	1	12/1/2004
cis-1,2-Dichloroethene	ND	5.4	μg/Kg	1	12/1/2004
cis-1,3-Dichloropropene	ND	5.4	μg/Kg	1	12/1/2004

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range H-Samples exceding holding time

Page 18 of 32



CLIENT:

Ninyo & Moore

Lab Order:

072617

Client Sample ID: T2-2-2

Project:

Bloomfield II, 205372005

Collection Date: 11/30/2004

Lab ID: Analyte

072617-013

Matrix: SOIL

DF

Date Analyzed

Date: 08-Dec-04

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

PQL Qual Units

RunID:	MS3_041201A	QC Batch:	R04	VS193	Pre	pDate: 11/3	30/2004	Analyst: JPC
Dibron	nochloromethane		ND	5.4	μg/Kg	1		12/1/2004
Dibron	nomethane		ND	5.4	μg/Kg	1		12/1/2004
Dichlo	rodifluoromethane		ND	5.4	μg/Kg	1		12/1/2004
Ethylbe	enzene	ı	ND	5.4	µg/Кg	1		12/1/2004
Hexad	hlorobutadiene	ı	ND	5.4	μg/Kg	1		12/1/2004
Isoproj	pytbenzene	1	ND .	5.4	μg/Kg	1		12/1/2004
m,p-Xy	dene	ı	ND	5.4	μg/Kg	1		12/1/2004
Methyl	ene chloride	ı	ND	5.4	μ g/Kg	1		12/1/2004
n-Buty	Ibenzene		ND	5.4	μg/Kg	1		12/1/2004
n-Prop	ylbenzene	ı	ND	5.4	μg/Kg	1		12/1/2004
Napht	nalene	1	ND	5.4 .	μg/Kg	1		12/1/2004
o-Xyle	ne	1	ND	5.4	μg/Kg	1		12/1/2004
sec-Bu	itylbenzene	1	ND	5.4	μg/Kg	1		12/1/2004
Styren	e	ı	ND	5.4	μg/Kg	1		12/1/2004
tert-Bu	tylbenzene	ı	ND	5.4	μ g/K g	1		12/1/2004
Tetrac	hloroethene	1	ND	5.4	μg/Kg	1		12/1/2004
Toluen	e	1	ND	5.4	μg/Kg	1		12/1/2004
trans-1	,2-Dichloroethene		ND	5.4	μg/Kg	1		12/1/2004
Trichlo	roethene	ı	ΝD	5.4	μg/Kg	1		12/1/2004
Trichlo	rofluoromethane	1	ND	5.4	μ g /Kg	1		12/1/2004
Vinyl c	hloride	1	ND	5.4	μg/Kg	1		12/1/2004

Result

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

(EPA 3550B)

EPA 8270C

RunID: MS7_041202A	QC Batch:	20428			PrepDate:	12/2/2004	Analyst: JWS
2-Methylnaphthalene		ND	330	μg/Kg	1		12/3/2004
Acenaphthene	1	ND.	330	μg/Kg	1		12/3/2004
Acenaphthylene	1	ND	330	μg/Kg	1		12/3/2004
Anthracene	1	ID .	330	μg/Kg	1		12/3/2004
Benzo(a)anthracene	1	ND.	330	μ g/ Kg	1		12/3/2004
Benzo(a)pyrene	1	ND O	330	μg/Kg	1		12/3/2004
Benzo(b)fluoranthene	1	ND.	330	μg/Kg	11.		12/3/2004
Benzo(g,h,i)perylene	1	ND.	330	µg/Kg	1		12/3/2004
Benzo(k)fluoranthene	ı	ND	330	μg/Kg	1		12/3/2004
Chrysene	ı	٧D	330	μ g /Kg	1		12/3/2004
Dibenz(a,h)anthracene		ND	330	μ g /Kg	1		12/3/2004

Qualifiers:

- ND Not Detected at the Reporting Limit
- J Analyte detected below quantitation limits
 - R RPD outside accepted recovery limits E - Value above quantitation range
- B Analyte detected in the associated Method Blank
- H-Samples exceding holding time

S - Spike Recovery outside accepted recovery limits

Page 19 of 32

DO - Surrogate Diluted Out

Date: 08-Dec-04

CLIENT: Lab Order: Ninyo & Moore

072617

Project:

Bioomfield II, 205372005

Lab ID: 072617-013

Client Sample ID: T2-2-2

Chem bumpie 15: 12 2

Collection Date: 11/30/2004

Matrix: SOIL

Analyte	Res	ult	PQL	Qual	Units		DF	Date	Analyzed
SEMIVOLATILE ORGANIC	COMPOUNDS BY G	C/MS		Ε	PA 827	'0C			
RunID: MS7_041202A	QC Batch:	20428				PrepDate:		12/2/2004	Analyst: JWS
Fluoranthene	1	ND	330		µg/Kg		1		12/3/2004
Fluorene		ND	330		µg/Kg		1		12/3/2004
Indeno(1,2,3-cd)pyrene	1	ND	330		μg/Kg		1		12/3/2004
Naphthalene	i	ΝĎ	330		μg/Kg		1		12/3/2004
Phenanthrene		ND	330		μg/Kg		1		12/3/2004
Pyrene	1	ND	330		μg/Kg		1		12/3/2004

ND - Not Detected at the Reporting Limit

DO - Surrogate Diluted Out

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range H-Samples exceeding holding time

Page 20 of 32

CLIENT: Ninyo & Moore

Client Sample ID: T2-3-2

Lab Order:

072617

Bloomfield II, 205372005

Collection Date: 11/30/2004

Date: 08-Dec-04

Project:

Lab ID:	072617-016						Matrix:	SO	IL	
Analyte	nalyte Result		PQL Qual Units			DF Date		e Analyzed		
ICP METALS										
	(1	EPA 3050B)			Ε	PA 601	0B			
RunID: ICP6_041	206A	QC Batch:	20458				PrepDate:		12/6/2004	Analyst: RQ
Antimony			ND	1.0		mg/Kg		1		12/6/2004
Arsenic			ND	1.0		mg/Kg		1		12/6/2004
Barium			59	1.0		mg/Kg		1		12/6/2004
Beryllium			ND	1.0		mg/Kg		1		12/6/2004
Cadmium			ND	1.0		mg/Kg		1		12/6/2004
Chromium			6.3	1.0		mg/Kg		1		12/6/2004
Cobalt			3.3	1.0		mg/Kg		1		12/6/2004
Copper			7.0	1.0		mg/Kg		1		12/6/2004
Lead			32	1.0		mg/Kg		1		12/6/2004
Molybdenum			ND	1.0		mg/Kg		1		12/6/2004
Nickel			4.9	1.0		mg/Kg		1		12/6/2004
Setenium			ND	1.0		mg/Kg		1		12/6/2004
Silver			ND	1.0		mg/Kg		1		12/6/2004
Thallium			ND	1.0		mg/Kg		1		12/6/2004
Vanadium			11	1.0		mg/Kg		1		12/6/2004
Zinc			18	1.0		mg/Kg		1		12/6/2004
HYDROCARBON	CHAIN IDENTIF	ICATION								
	(1	LUFT)			Ε	PA 801	5B			
RuniD: GC7_0411	1308	QC Batch:	20414				PrepDate:		12/1/2004	Analyst: CB
T/R Hydrocarbons	: >C32		17	10		mg/Kg		1		12/5/2004
T/R Hydrocarbons	: C10-C12		ND	10		mg/Kg		1		12/5/2004
T/R Hydrocarbons	: C13-C15		ND	10		mg/Kg		1		12/5/2004
T/R Hydrocarbons	: C16-C22		ND	10		mg/Kg		1		12/5/2004
T/R Hydrocarbons	: C23-C32		15	10		mg/Kg		1		12/5/2004
GASOLINE RANG	SE ORGANICS E	BY GC/FID								
					EP	A 8015	B(M)			
RunID: GC2_0412	201A	QC Batch:	E04VS	342			PrepDate:		11/30/2004	Analyst: JV
GRO			ND	0.83		mg/Kg		1		12/1/2004
MERCURY BY CO	OLD VAPOR TEC	HNIQUE								

(EPA 7471)

EPA 7471A

12/6/2004 Analyst: JT RunID: AA1_041206A QC Batch: 20456 PrepDate: ND 0.10 12/6/2004 Mercury mg/Kg

Qualifiers: ND - Not Detected at the Reporting Limit

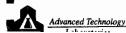
S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

J - Analyte detected below quantitation limits

H-Samples exceding holding time

B - Analyte detected in the associated Method Blank DO - Surrogate Diluted Out

E - Value above quantitation range Page 21 of 32



Ninyo & Moore

072617 Bloomfield II, 205372005

QC Batch:

Project: Lab ID:

CLIENT:

Lab Order:

RuniD: MS3_041201A

072617-016

Client Sample ID: T2-3-2

Collection Date: 11/30/2004

PrepDate:

Matrix: SOIL

Date: 08-Dec-04

11/30/2004 Analyst: JPC

Result PQL Qual Units DF Analyte Date Analyzed

R04VS193

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

riumo.	11100_07720171	do Daton.	110-110-100	•	, ropputo.	1110012001	Alayst. or C
1,1,1,2	2-Tetrachloroethane		ND	4.9	μg/Kg	1	12/1/2004
1,1,1-	Trichloroethane		ND	4.9	μg/Kg	1	12/1/2004
1,1,2,2	2-Tetrachloroethane		ND	4.9	μg/Kg	1	12/1/2004
1,1,2-	Trichloroethane		ND	4.9	μg/Kg	1	12/1/2004
1,1-Di	chloroethane		ND	4.9	μg/Kg	1	12/1/2004
1,1-Di	chloroethene		ND	4.9	μg/Kg	1	12/1/2004
1,1-Di	chloropropene		ND	4.9	μg/Kg	1	12/1/2004
1,2,3-	Trichlorobenzene		ND	4.9	μ g/K g	1	12/1/2004
1,2,3-	Trichloropropane		ND	4.9	μ g/K g	1	12/1/2004
1,2,4-	Trichlorobenzene		ND	4.9	μg/Kg	1	12/1/2004
1,2,4	Trimethylbenzene		ND	4.9	μ g/K g	1	12/1/2004
1,2-Di	bromo-3-chioropropane		ND	9.7	μg/Kg	1	12/1/2004
1,2-Di	bromoethane		ND	4.9	μ g/K g	1	12/1/2004
1,2-Di	chlorobenzene		ND	4.9	μ g/ Κg	1	12/1/2004
1,2-Di	chloroethane		ND	4.9	μ g/K g	1	12/1/2004
1,2-D	chloropropane		ND	4.9	μg/Kg	1	12/1/2004
1,3,5-	Trimethylbenzene		ND	4.9	μg/Kg	1	12/1/2004
1,3-Di	chlorobenzene		ND	4.9	μg/Kg	1	12/1/2004
1,3-Di	chloropropane		ND	4.9	μ g /Kg	1	12/1/2004
1,4-Di	chlorobenzene		ND	4.9	μ g /Kg	1	12/1/2004
2,2-Di	chloropropane		ND	4.9	μg/Kg	1	12/1/2004
2-Chlo	protoluene		ND	4.9	μ g /Kg	1	12/1/2004
4-Chlo	protoluene		ND	4.9	μg/Kg	1	12/1/2004
4-isop	ropyltoluene		ND	4.9	µg/Kg	1	12/1/2004
Benze	ne		ND	4.9	μ g/K g	1	12/1/2004
Bromo	benzene		ND	4.9	μ g /Kg	1	12/1/2004
Bromo	odichloromethane		ND	4.9	μg/Kg	1	12/1/2004
Bromo	oform		ND	4.9	μ g/K g	1	12/1/2004
Bromo	methane		ND	4.9	μg/Kg	1	12/1/2004
	n tetrachlonde		ND	4.9	μ g/K g	1	12/1/2004
Chloro	benzene		ND	4.9	µ g/K g	1	12/1/2004
Chloro	ethane		ND	4.9	µg/Kg	1	12/1/2004
Chloro	oform		ND	4.9	μg/Kg	ነ	12/1/2004
Chloro	omethane		ND	4.9	μg/Kg	1	12/1/2004
cis-1,2	2-Dichloroethene		ND	4.9	μg/Kg	1	12/1/2004
cis-1,3	3-Dichtoropropene		ND	4.9	μg/Kg	1	12/1/2004

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitiation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

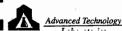
S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H-Samples exceding holding time

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CLIENT: Ninyo & Moore

072617

Bloomfield II, 205372005

Lab ID:

Lab Order:

Project:

072617-016

Date: 08-Dec-04

Client Sample ID: T2-3-2

Collection Date: 11/30/2004 Matrix: SOIL

Analyte Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS3_041201A	QC Batch:	R04VS193		PrepDate:		11/30/2004	Analyst: JPC	
Dibron	nochloromethane		ID	4.9	µg/Кg	1		12/1/2004	
Dibron	nomethane	N	ID	4.9	μ g/K g	1		12/1/2004	
Dichlo	rodifluoromethane	N	ID	4.9	μg/Kg	1		12/1/2004	
Ethylb	enzene	N	ID	4.9	µg/Kg	1		12/1/2004	
Hexac	hiorobutadiene	N	ID	4.9	μ g /Kg	1		12/1/2004	
Isopro	pylbenzene	N	D	4.9	μ g/K g	1		12/1/2004	
m,p-X	enel	N	ID	4.9	µg/Кg	1		12/1/2004	
Methy	lene chloride	N	ID	4.9	µg/Кg	1		12/1/2004	
n-Buty	fbenzene	N	ID	4.9	μ g /Kg	1		12/1/2004	
n-Prop	ylbenzene	N	ID	4.9	µg/Кg	1		12/1/2004	

Naphthalene ND 12/1/2004 4.9 μg/Kg o-Xylene ND 4.9 μg/Kg 12/1/2004 ND 4.9 12/1/2004 sec-Butylbenzene μg/Kg Styrene ND 4.9 μg/Kg 12/1/2004 ND tert-Butylbenzene 4.9 μg/Kg 12/1/2004 Tetrachloroethene ND 4.9 μg/Kg 12/1/2004 ND 4.9 μg/Kg 12/1/2004

trans-1,2-Dichloroethene ND 4.9 μg/Kg 12/1/2004 Trichloroethene ND 4.9 μg/Kg 12/1/2004 Trichlorofluoromethane ND 4.9 μg/Kg 12/1/2004 Vinyl chloride 4.9 μg/Kg 12/1/2004

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

(EPA 3550B)

EPA 8270C

RunID: MS7_041202A	QC Batch:	20428		PrepDate:	12/2/2004 Analyst: JWS
2-Methylnaphthalene	N	D 330	µg/Кg	1	12/3/2004
Acenaphthene	N	D 330	µg/Kg	1	12/3/2004
Acenaphthylene	N	D 330	μg/Kg	1	12/3/2004
Anthracene	N	D 330	μ g /Kg	1	12/3/2004
Benzo(a)anthracene	N	D 330	μg/Kg	1	12/3/2004
Benzo(a)pyrene	N	D 330	μg/Kg	1	12/3/2004
Benzo(b)fluoranthene	N	D 330	μ g/ Kg	1 •	12/3/2004
Benzo(g,h,i)perylene	N	D 330	μ g/K g	1	12/3/2004
Berizo(k)fluoranthene	N	D 330	μg/Kg	1	12/3/2004
Chrysene	N	D 330	μg/Kg	1	12/3/2004
Dibenz(a,h)anthracene	N	D 330	μg/Kg	1	12/3/2004

Qualiflers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range Page 23 of 32 H-Samples exceding holding time

Results are wet unless otherwise specified



Date: 08-Dec-04

DF

Date Analyzed

12/3/2004

CLIENT:

Ninyo & Moore

Client Sample ID: T2-3-2

Lab Order:

072617

Bloomfield II, 205372005

Project:

072617-016

Matrix: SOIL

Lab ID:

Pyrene

Collection Date: 11/30/2004

Analyte SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

	(EPA 3550B)			EPA 8270	С		
RuniD: MS7_041202A	QC Batch:	20428		F	PrepDate:	12/2/2004	Analyst: JWS
Fluoranthene		ND	330	µg/Кg	1		12/3/2004
Fluorene		ND	330	µд∕Кд	. 1		12/3/2004
Indeno(1,2,3-cd)pyrene		ND	330	µg/Kg	1		12/3/2004
Naphthalene		ND	330	μg/Kg	1		12/3/2004
Phenanthrene		ND	330	μ g/K g	1		12/3/2004

330

μg/Kg

PQL Qual Units

Result

ND

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitization limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range Page 24 of 32 H-Samples exceding holding time

Results are wet unless otherwise specified



CLIENT:

Ninyo & Moore

Client Sample ID: JF3-1-2

Lab Order:

072617

Bloomfield II, 205372005

Collection Date: 11/30/2004

Prolect: Lab ID: Analyte

072617-019

Matrix: SOIL

PQL Qual Units

DF Date Analyzed

ICP	METALS

(EPA 3050B)

EPA 6010B

ICP6_0412
ony
С

QC Batch:

Result

PrepDate:

Date: 08-Dec-04

12/6/2004 Analyst: RQ

Barium Beryllium

Cobalt

Copper

Molybdenum

Lead

Nickel

Silver

Selenium

Thallium

ND 1.9 49 ND 1.0 1.0 1.0 1.0 1.0

mg/Kg mg/Kg mg/Kg mg/Ka

12/6/2004 12/6/2004 12/6/2004 12/6/2004

12/6/2004

12/6/2004

12/6/2004

12/6/2004

12/6/2004

12/6/2004

12/5/2004

12/5/2004

12/5/2004

12/5/2004

Cadmium Chromium

ND

8.8 1.0 4.9 1.0 9.4 1.0 3.0 1.0

ND

7.0

1.7

ND

ND

15

16

18

11

ND

ND

ND

ND

20414

20458

1.0

1.0

1.0

1.0

1.0

1.0

1.0

10

10

10

10

10

ma/Ka mg/Kg mg/Kg mg/Kg mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

ma/Ka

mg/Kg

12/6/2004 12/6/2004 12/6/2004 12/6/2004 12/6/2004 12/6/2004

Vanadium Zinc HYDROCARBON CHAIN IDENTIFICATION

OC Batch:

mg/Kg **EPA 8015B**

mg/Kg

mg/Kg

mg/Kg

mg/Kg

PrepDate:

12/1/2004 Analyst: CBR 12/5/2004

T/R Hydrocarbons: C10-C12 T/R Hydrocarbons: C13-C15 T/R Hydrocarbons: C16-C22

T/R Hydrocarbons: C23-C32 **GASOLINE RANGE ORGANICS BY GC/FID**

ma/Ka EPA 8015B(M)

RunID: GC2 041201A

RunID: GC7_041130B

T/R Hydrocarbons: >C32

QC Batch:

E04VS342

1.0

PrepDate:

11/30/2004

Analyst: JV 12/1/2004

GRO MERCURY BY COLD VAPOR TECHNIQUE

(EPA 7471)

20456

EPA 7471A

mg/Kg

12/6/2004 Analyst: JT

RunID: AA1_041206A

QC Batch:

0.10

mg/Kg

S - Spike Recovery outside accepted recovery limits

Tel: 562 989-4045

12/6/2004

Mercury Qualiflers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits E - Value above quantitation range

PrepDate:

DO - Surrogate Diluted Out

Results are wet unless otherwise specified

H-Samples exceding holding time

Page 25 of 32

Fax: 562 989-4040

CLIENT: Ninyo & Moore

Client Sample ID: T3-1-2

Lab Order: 072617

Project: Bloomfield II, 205372005

Collection Date: 11/30/2004 Matrix: SOIL 072617-019 Lab ID:

Analyte Result PQL Qual Units DF Date Analyzed

EPA 8260B

VOLATILE ORGANIC COMPOUNDS BY GC/MS

RunID:	MS3_041201A	QC Batch:	R04V\$193		Pre	pDate: 11/30)/2004	Analyst: JPC
1,1,1,2-	Tetrachloroethane	1	ND	5.8	μg/Kg	1		12/1/2004
1,1,1-Tr	richloroethane	1	ND	5.8	μg/Kg	1		12/1/2004
1,1,2,2-	Tetrachloroethane	1	ND	5.8	μg/Kg	1		12/1/2004
1,1,2-Tr	richloroethane		ND	5.8	µg/Kg	1		12/1/2004
1,1-Dict	hloroethane		ND	5.8	μ g/ Kg	1		12/1/2004
1,1-Dic	hloroethene		ND ·	5.8	μg/Kg	1		12/1/2004
1,1-Did	hloropropene	1	ND	5.8	μg/Kg	1		12/1/2004
1,2,3-Tr	richlorobenzene		ND	5.8	μg/Kg	1		12/1/2004
1,2,3-Tı	richloropropane	1	ND	5.8	μg/Kg	1		12/1/2004
1,2,4-Tr	richlorobenzene		ND	5.8	μ g/K g	1		12/1/2004
1,2,4-Tr	rlmethylbenzene		ND	5.8	. μg/Kg	1		12/1/2004
1,2-Dibi	romo-3-chloropropane		ND	12	μg/Kg	1		12/1/2004
1,2-Dibi	romoethane		ND	5.8	μg/Kg	1		12/1/2004
1,2-Did	hlorobenzene		ND	5.8	μg/Kg	1		12/1/2004
1,2-Dick	hloroethane	1	ND	5.8	μg/Kg	1		12/1/2004
1,2-Dick	hloropropane	1	ND	5.8	μ g /Kg	1		12/1/2004
1,3,5-Ti	nmethylbenzene		ΝĎ	5.8	μ g /Kg	1		12/1/2004
1,3-Did	hlorobenzene	1	ND	5.8	μg/Kg	1		12/1/2004
1,3-Did	hloropropane	1	ND	5.8	μ g/ Kg	1		12/1/2004
1,4-Did	hlorobenzene	1	ND	5.8	μg/Kg	1		12/1/2004
2,2-Dict	hloropropane	1	ND	5.8	μg/Kg	1		12/1/2004
2-Chlore	otoluene	1	ND	5.8	μ g/K g	1		12/1/2004
4-Chlon	otoluene	1	ND	5.8	μg/Kg	1		12/1/2004
4-Isopro	opyltoluene		ND	5.8	μg/Kg	1		12/1/2004
Benzen	10		ND	5.8	μg/Kg	1		12/1/2004
Bromob	enzene	1	ND	5.8	μg/Kg	1		12/1/2004
Bromod	dichloromethane		ND	5.8	μ g/ Kg	1		12/1/2004
Bromofe	om	1	ND	5.8	μg/Kg	1		12/1/2004
Bromon	nethane		ND	5.8	μg/Kg	1		12/1/2004
Carbon	tetrachloride	1	ND	5.8	μ g /Kg	1		12/1/2004
Chlorob	enzene		ND	5.8	μg/Kg	1		12/1/2004
Chloroe	ethane		ND	5.8	μg/Kg	1		12/1/2004
Chlorofe	orm		ND	5.8	μg/Kg	1.		12/1/2004
Chloron	nethane		ND	5.8	μg/Kg	1		12/1/2004
ds-1,2-	Dichloroethene		ND	5.8	μg/Kg	1		12/1/2004
	Dichloropropene		ND	5.8	μα/Kg	1		12/1/2004

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitization limits

B - Analyte detected in the associated Method Blank

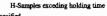
S - Spike Recovery outside accepted recovery limits

Date: 08-Dec-04

R - RPD outside accepted recovery limits

E - Value above quantitation range









CLIENT: Ninyo & Moore

072617

Project: Bloomfield II, 205372005

Lab ID:

Lab Order:

072617-019

Date: 08-Dec-04

Client Sample ID: T3-1-2

EPA 8260B

Collection Date: 11/30/2004

Matrix: SOIL

Analyte	Result	PQL Qual Units	DF	Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

			EPA 020	000		
RunID: MS3_041201A	QC Batch:	R04VS193		PrepDate:	11/30/2004	vnalyst: JPC
Dibromochloromethane		ND 5.	8 µg/Kg	1		12/1/2004
Dibromomethane		NO 5.	8 μg/Kg	1		12/1/2004
Dichlorodifluoromethane		NO 5.	.8 μg/Kg	1		12/1/2004
Ethylbenzene		ND 5.	8 µg/Kg	1		12/1/2004
Hexachlorobutadiene		ND - 5.	.8 μg/Kg	1		12/1/2004
Isopropylbenzene		ND 5.	.8 μg/Kg	1		12/1/2004
m,p-Xylene	1	ND 5.	8 μg/Kg	1		12/1/2004
Methylene chloride	1	ND 5.	.8 μg/Kg	1		12/1/2004
n-Butylbenzene	1	ND 5.	.8 μg/Kg	1		12/1/2004
n-Propylbenzene	1	ND 5.	.8 μg/Kg	1		12/1/2004
Naphthalene	1	ND 5.	.8 μg/Kg	1		12/1/2004
o-Xylene	1	ND 5.	8 µg/Kg	1		12/1/2004
sec-Butylbenzene	1	ND 5.	.8 μg/Kg	1		12/1/2004
Styrene		ND 5.	.8 μg/Kg	1		12/1/2004
tert-Butylbenzene		ND 5	.8 μg/Kg	1		12/1/2004
Tetrachloroethene	1	ND 5.	.8 μg/Kg	1		12/1/2004
Toluene	1	ND 5.	.8 µg/Kg	1		12/1/2004
trans-1,2-Dichloroethene	1	ND 5.	.8 μg/Kg	1		12/1/2004
Trichloroethene	1	ND 5.	.8 μg/Kg	1		12/1/2004
Trichlorofluoromethane		ND 5.	.8 µg/Kg	1		12/1/2004
Vinyl chloride	1	ND 5.	.8 µg/Kg	1		12/1/2004

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

	(EPA 3550B)		EPA 8270C		
RunID: MS7_041202A	QC Batch:	20428	PrepDate:	12/2/2004	Analyst: JWS
2-Methylnaphthalene		D 330	μ g/ Kg	1	12/3/2004
Acenaphthene	N	D 330	μg/Kg	1	12/3/2004
Acenaphthylene	N	D 330	μg/Kg	1	12/3/2004
Anthracene	N	D 330	μg/Kg	1	12/3/2004
Benzo(a)anthracene	N	D 330	μg/Kg	1	12/3/2004
Benzo(a)pyrene	N	ID 330	μg/Kg	1	12/3/2004
Benzo(b)fluoranthene	N	ID 330	μg/Kg	1,	12/3/2004
Benzo(g,h,i)perylene	N	ID 330	μg/Kg	1	12/3/2004
Benzo(k)fluoranthene	N	ID 330	μg/Kg	1	12/3/2004
Chrysene	N	ID 330	μg/Kg	1	12/3/2004
Dibenz(a,h)anthracene	N	ID 330	μ g/ Kg	1	12/3/2004

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits E - Value above quantitation range

H-Samples exceeding holding time Page 27 of 32

Date: 08-Dec-04

CLIENT:

Ninyo & Moore

Client Sample ID: T3-1-2

Lab Order:

072617

Project:

Bloomfield II, 205372005

Result

Collection Date: 11/30/2004

Lab ID:

072617-019

Matrix: SOIL

Analyte

DF Date Analyzed

SEMIVOLATILE	ORGANIC		
SEMINOLATICE	CROMIC	(EDA DE	

OL.	ODMILL ONGLING	(EPA 3550B)				ос		
RunID:	MS7_041202A	QC Batch:	20428			PrepDate:	12/2/2004	Analyst: JWS
Fluora	inthene		ND	330	μg/Kg	1		12/3/2004
Fluore	ene		ND	330	μg/Kg	1		12/3/2004
Inden	o(1,2,3-cd)pyrene		ND	330	µg/Kg	1		12/3/2004
Napht	halene		ND	330	μg/Kg	1		12/3/2004
Phena	inthrene		ND	330	μg/Kg	1		12/3/2004
Pyren	е		ND	330	μg/Kg	1		12/3/2004

PQL Qual Units

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range H-Samples exceding holding time

Page 28 of 32

DO - Surrogate Diluted Out

CLIENT: Lab Order: Ninyo & Moore

072617

Bloomfield II, 205372005

Project: Lab ID:

072617-022

Date: 08-Dec-04

Client Sample ID: T3-2-2

Collection Date: 11/30/2004 Matrix: SOIL

Analyte	Resu	lt PQ	L Qual Units	DF	Date	Analyzed
ICP METALS	(EPA 3050B)		EPA 6010B			
RunID: ICP6 041206A	QC Batch:	20458	PrepDat		12/6/2004	Analyst: RQ

Antimony	ND	1.0	mg/Kg	1	12/6/2004
Arsenic	ND	1.0	mg/Kg	1	12/6/2004
Barium	47	1.0	mg/Kg	1	12/6/2004
Beryllium	ND	1.0	mg/Kg	1	12/6/2004
Cadmium	ND	1.0	mg/Kg	1	12/6/2004
Chromium	6.8	1.0	mg/Kg	1	12/6/2004
Cobalt	3.7	1.0	mg/Kg	1	12/6/2004
Copper	7.3	1.0	mg/Kg	1	12/6/2004
Lead	1.9	1.0	mg/Kg	1	12/6/2004
Molybdenum	ΝĐ	1.0	mg/Kg	1	12/6/2004
Nickel	5.4	1.0	mg/Kg	1	12/6/2004
Solonium	ND	10	ma/Ka	1	12/6/2004

Selenium	ND	1.0	mg/Kg	1	12/6/2004
Silver	ND	1.0	mg/Kg	1	12/6/2004
Thallium	ND	1.0	mg/Kg	1	12/6/2004
Vanadium	12	1.0	mg/Kg	1	12/6/2004
Zinc	15	1.0	mg/Kg	1	12/6/2004

HYDROCARBON CHAIN IDENTIFICATION

		(LUFT)
		(,

EPA 8015B	
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RunID: GC7_041130B	QC Batch: 20414		PrepD	ate: 12/1/2004	Analyst: CBR
T/R Hydrocarbons: >C32	21	10	mg/Kg	1	12/5/2004
T/R Hydrocarbons: C10-C12	11	10	mg/Kg	1	12/5/2004
T/R Hydrocarbons: C13-C15	ND	10	mg/Kg	1	12/5/2004
T/R Hydrocarbons: C16-C22	ND	10	mg/Kg	1	12/5/2004
T/R Hydrocarbons: C23-C32	15	10	mg/Kg	1	12/5/2004

GASOLINE RANGE ORGANICS BY GC/FID

				-	LV 00 12D(W)			
RuniD;	GC2_041201A	QC Batch:	E0-	4VS342	PrepDa	te:	11/30/2004	Analyst: JV
GRO			ND	0.97	mg/Kg	1		12/1/2004
MERCU	RY BY COLD VAPO	R TECHNIQUE						
		(EPA 7471)			EPA 7471A			

RunID: AA1_041206A

QC Batch: 20456 PrepDate: 12/6/2004 Analyst: JT ND 0.10 mg/Kg 12/6/2004

Qualifiers: S - Spike Recovery outside accepted recovery limits ND - Not Detected at the Reporting Limit

> R - RPD outside accepted recovery limits J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank E - Value above quantitation range Page 29 of 32 DO - Surrogate Diluted Out H-Samples exceding holding time

Results are wet unless otherwise specified

Mercury

Ninyo & Moore

072617

Bloomfield II, 205372005

Lab ID:

CLIENT:

Project:

Lab Order:

072617-022

Date: 08-Dec-04

Matrix: SOIL

Client Sample ID: T3-2-2

Collection Date: 11/30/2004

Analyte Result PQL Qual Units DF Date Analyzed

				EPA 826	ЮB		
RunID:	MS3_041201A	QC Batch:	R04VS193		PrepDate:	11/30/2004	Analyst: JP
1,1,1,2	-Tetrachloroethane	NC	5.5	μ g/ Kg	1		12/1/2004
1,1,1-1	richloroethane	NC	5.5	μg/Kg	1		12/1/2004
1,1,2,2	2-Tetrachloroethane	NE	5.5	μ g/K g	1		12/1/2004
1,1,2-1	richloroethane	NC	5.5	μ g /Kg	1		12/1/2004
1,1-Dic	chloroethane	NC	5.5	μg/Kg	1		12/1/2004
1,1-Did	chloroethene	NE	5.5	μg/Kg	1		12/1/2004
1, 1- Dic	chloropropene	NE	5.5	μg/Kg	1		12/1/2004
1,2,3-7	richlorobenzene	NE	5.5	μg/Kg	1		12/1/2004
1,2,3-1	richloropropane	NE	5.5	μg/Kg	1		12/1/2004
1,2,4-1	richlorobenzene	NE	5.5	μ g /Kg	1		12/1/2004
1,2,47	Frimethylbenzene	NE	5.5	, μg/Kg	1		12/1/2004
1,2-Di	oromo-3-chloropropane	NE	11	μ g /Kg	1		12/1/2004
1,2-Di	promoethane	NE	5.5	μg/Kg	1		12/1/2004
1,2-Dic	chlorobenzene	NE	5.5	μg/Kg	1		12/1/2004
1,2-Dk	chloroethane	NC	5.5	µg/Кg	1		12/1/2004
1,2-Dic	chloropropane	NE	5.5	μg/Kg	1		12/1/2004
1,3,5-1	rimethylbenzene	NE	5.5	μg/Kg	1		12/1/2004
1,3-Di	chlorobenzene	NE	5.5	μg/Kg	1		12/1/2004
1,3-Die	chloropropane	NE	5.5	μg/Kg	1		12/1/2004
1,4-Die	chlorobenzene	NE	5.5	μg/Kg	1		12/1/2004
2,2-Die	chloropropane	NE	5.5	μg/Kg	1		12/1/2004
2-Chlo	rotoluene	NE	5.5	μg/Kg	1		12/1/2004
4-Chlo	rotoluene	NE	5.5	μg/Kg	1		12/1/2004
4-Isop	ropyltoluene	NE	5.5	μ g /Kg	1		12/1/2004
Benze	ne	NE	5.5	μg/Kg	1		12/1/2004
Bromo	benzene	NO	5.5	μg/Kg	1		12/1/2004
Bromo	dichloromethane	· NE	5.5	μg/Kg	1		12/1/2004
Bromo	form	NE	5.5	μg/Kg	1		12/1/2004
Bromo	methane	NE	5.5	μg/Kg	1		12/1/2004
Carbor	n tetrachloride	, NE	5.5	μg/Kg	1		12/1/2004
Chloro	benzene	NE	5.5	μg/Kg	1		12/1/2004
Chloro	ethane	NE	5.5	μg/Kg	1		12/1/2004
Chloro	form	N	5.5	μg/Kg	1	•	12/1/2004
Chloro	methane	N	5.5	μg/Kg	1		12/1/2004
ds-1,2	-Dichloroethene	NE	5.5	μg/Kg	1		12/1/2004
cis-1.3	-Dichloropropene	N	5.5	μg/Kg	1		12/1/2004

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 30 of 32 H-Samples exceding holding time



Date: 08-Dec-04

CLIENT:

Ninyo & Moore

Client Sample ID: T3-2-2

Lab Order: Project:

072617

Bloomfield II, 205372005

Collection Date: 11/30/2004

EPA 8260B

Lab ID:

072617-022

Analyte

Matrix: SOIL

Result

PQL Qual Units

DF

Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

RuniD:	MS3_041201A	QC Batch:	R	04V\$193		PrepDate:	11/30/2004	Analyst: JPC
Dibror	nochloromethane		ND	5.5	μg/Kg	1		12/1/2004
Dibror	nomethane		ND	5.5	µg/Kg	1		12/1/2004
Dichlo	rodifluoromethane		ND	5.5	μg/Kg	1		12/1/2004
Ethylb	enzene		ND	5.5	μg/Kg	1		12/1/2004
Hexac	hlorobutadiene		ND	5.5	μg/Kg	1		12/1/2004
Isopro	pylbenzene		ND	5.5	μg/Kg	1		12/1/2004
m,p-X	ylene		ND	5.5	μg/Kg	1		12/1/2004
Methy	lene chloride		ND	5.5	μg/Kg	1		12/1/2004
n-Buty	dbenzene		ND	5.5	μg/Kg	1		12/1/2004
n-Proj	pylbenzene		ND	5.5	μg/Kg	1		12/1/2004
Napht	halene		ND	5.5 ,	μg/Kg	1		12/1/2004
o-Xyle	те		ND	5.5	μg/Kg	1		12/1/2004
sec-B	utylbenzene		ND	5.5	μg/Kg	1		12/1/2004
Styrer	ne .		ND	5.5	μ g/ Kg	1		12/1/2004
tert-Br	utylbenzene		ND	5.5	μg/Kg	1		12/1/2004
Tetrac	hloroethene		ND	5.5	μg/Kg	1		12/1/2004
Tolue	ne		ND	5.5	μ g/ Kg	1		12/1/2004
trans-	1,2-Dichloroethene		ND	5.5	μg/Kg	1		12/1/2004
Trichic	proethene		ND	5.5	μg/Kg	1		12/1/2004
Trichle	orofluoromethane		ND	5.5	µg/Kg	1		12/1/2004

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

(EPA	3550B)	

ND

µg/Kg **EPA 8270C**

RuniD: MS7_041202A	QC Batch:	20428	Prej	Date: 12/2	/2004 Analyst: JWS
2-Methylnaphthalene	ND	330	μg/Kg	1	12/3/2004
Acenaphthene	ND	330	μg/Kg	1	12/3/2004
Acenaphthylene	ND	330	μg/Kg	1	12/3/2004
Anthracene	ND	330	µg/Kg	1	12/3/2004
Benzo(a)anthracene	ND	330	µg/Kg	1	12/3/2004
Benzo(a)pyrene	ND	330	μg/Kg	1	12/3/2004
Benzo(b)fluoranthene	ND	330	μg/Kg	1,	12/3/2004
Benzo(g,h,i)perylene	ND	330	µg/Kg	1	12/3/2004
Benzo(k)fluoranthene	ND	330	μg/Kg	1	12/3/2004
Chrysene	ND	330	μg/Kg	1	12/3/2004
Dibenz(a,h)anthracene	ND	330	μ g/K g	1	12/3/2004

5.5

Qualifiers:

Vinyl chloride

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

E - Value above quantitation range H-Samples exceding holding time

Page 31 of 32

12/1/2004

Results are wet unless otherwise specified



33 of 53

3275 Walnut Avenue

Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Date: 08-Dec-04

DF

Date Analyzed

CLIENT:

Ninyo & Moore

Client Sample ID: T3-2-2

Lab Order:

072617

Project:

Bloomfield II, 205372005

Collection Date: 11/30/2004

Lab ID: Analyte

072617-022

Matrix: SOIL

SEMIV	OLATILE ORGANIC	COMPOUNDS BY ((EPA 3550B)	GC/MS		EPA 827	70C		
RuniD:	MS7_041202A	QC Batch:	204	128		PrepDate:	12/2/2004	Analyst: JWS
Fluora	anthene		ND	330	μg/Kg	1		12/3/2004
Fluore	ene		ND	330	μg/Kg	1		12/3/2004
Inden	o(1,2,3-cd)pyrene		ND	330	μg/Kg	1		12/3/2004
Naph	thalene		ND	330	μg/Kg	1		12/3/2004
Phen	anthrene		ND	330	μg/Kg	1		12/3/2004
Pyren	ie .		ND	330	μg/Kg	1		12/3/2004

PQL Qual Units

Result

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank DO - Surrogate Diluted Out

H-Samples exceding holding time

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits E - Value above quantitation range

Page 32 of 32



Ninyo & Moore

r: 072617

072617

Project: Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010 S

Sample ID: MB-20458	SampType: MBLK	TestCode: 6010_5	Units: mg/Kg	Prep Da	te: 12/6/2004	Run ID: ICP6_041206A	
Client ID: ZZZZZ	Batch ID: 20458	TestNo: EPA 60	10B (EPA 3050B)	Analysis Da	te: 12/6/2004	SeqNo: 646006	
Analyte	Result	PQL SPK vali	ue SPK Ref Val	%REC LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit	Quai
Аптітопу	ND	2.0					
Arsenic	ND	1.0					
Barlum	ND	1.0					
Beryllium	ND	1.0					
Cadmium	ND	1.0					
Chromium	ND	1.0					
Cobalt	ND	1.0					
Copper	ND	2.0					
Lead	ND	1.0					
Molybdenum	ND	1.0					
Nickel	ND ·	1.0					
Selenium	ND	1.0					
Silver	ND	1.0					
Thaillum	ND	1.0					
Vanadium	ND	1.0					
Zinc	ND	1.0					
	A 7	T-10-1- 0040 4	11-21		40/0/0004	Dun (D. 1000 0440004	

Sample ID: LCS-20458 Client ID: ZZZZZ	SampType: LCS Batch ID: 20458			le: 6010_S lo: EPA 6010 :	Units: mg/Kg B (EPA 3050B)	Prep Date: 12/6/2004 Analysis Date: 12/6/2004				Run ID: ICP6_041206A SeqNo: 646008		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	•	47.41	2.0	50	0	94.8	80	120	0	0		
Arsenic		46.14	1.0	50	0	92.3	80	120	0	0		
Barium		46.54	1.0	50	0	93.1	80	120	0	0		
Beryllium		47.28	1.0	50	0	94.6	80	120	. 0	0		
Cadmium		46.24	1.0	50	0	92.5	80	120	0	0		
Chromium		46.12	1.0	50	0	92.2	80	120	0	0		
Cobait		44.39	1.0	50	0	88.8	80	120	0	0		
Copper		46.69	2.0	50	0	93.4	80	120	0	0		

Qualifiers:

Tel: 562 989-4045

Fax: 562 989-4040

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

DO- Surrogate dilute out
H - Sample exceeded holding time

R - RPD outside accepted recovery limits

Calculations are based on raw values

Page 1 of 16

Ninyo & Moore

Work Order:

072617

Project: Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010 S

Sample ID: LCS-20458 Client ID: 22222		le: 6010_S lo: EPA 6010E	Units: mg/Kg (EPA 3050B)	Prep Date: 12/6/2004 Analysis Date: 12/6/2004				Run ID: 1CP6_041206A SeqNo: 646008			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLImit	Qual
Lead	44.11	1.0	50	0	88.2	80	120	0	0		
Molybdenum	47.08	1.0	50	0	94.2	80	120	0	0		
Nickel	44.42	1.0	50	0	88.8	80	120	0	. 0		
Selenium	47.2	1.0	50	0	94.4	80	120	0	0		
Silver	46.68	1.0	50	0	93.4	80	120	0	0		
Thaillum	45.44	1.0	50	0	90.9	80	120	0	0		
Vanadium	48.08	1.0	50	0	96.2	80	120	0	0		
Zinc	44.18	1.0	50	0	88.4	80	120	0	0		
Sample ID: 072617-022GMS	SampType: MS	TestCo	de: 6010_S	Units: mg/Kg		Prep Dat	te: 12/6/20	04	Run ID: ICF	6 041206A	

Sample ID: 072617-022GMS	SampType: MS	TestCo	de: 6010_S	Units: mg/Kg		Prep Date	: 12/6/20	04	Run ID: ICI	6_041206A	
Client ID: T3-2-2	Batch ID: 20458	Testh	No: EPA 6010B	(EPA 3050B)		Analysis Date	: 12/6/20	04	SeqNo: 64	B1 2 4	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	88.74	1.0	125	0	71	23	118	0	0		
Arsenic	103.5	1.0	125	0.9116	82	64	111	0	0		
Barium	141.7	1.0	125	47.32	75.5	36	146	0	0		
Beryllium	102.8	1.0	125	0	82.2	50	120	. 0	. 0		
Cadmium	101.3	1.0	125	0	81.1	62	107	0	0		
Chromium	108.5	1.0	125	6.765	81.4	63	119	0	0		
Cobalt	102.2	1.0	125	3.71	78.8	63	111	0	0		
Copper	117.3	1.0	125	7.288	88	58	136	0	0		
Lead	98.35	1.0	125	1.941	77.1	47	125	0	0		
Molybdenum	105	1.0	125	0	84	63	116	0	0		
Nickel	103.3	1.0	125	5.359	78.4	57	116	0	0		
Selenium	98.18	1.0	125	0	78.5	47	118	0	0		
Silver	100.8	1.0	125	0	80.6	48	125	0	0		
Thallium	95.65	1.0	125	0	76.5	49	116	0	0		
Vanadium	120.2	1.0	125	11.77	86.7	65	122	0	. 0		
Zinc	108.2	1.0	125	14.74	74.7	36	140	0	0		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Project:

Analyte

Antimony

Arsenic

Barlum

Bervilium

Cadmium

Chromium

Molybdenum

Cobatt

Copper

Lead

Nickel

Silver

Zinc

Selenium

Thallium

Vanadium

Work Order:

Client ID: T3-2-2

Sample ID: 072617-022GMSD

Ninvo & Moore

Bloomfield II, 205372005

SampType: MSD

Batch ID: 20458

Result

91.01

104.9

149.2

104.4

102.7

110.3

119.5

100.5

107

104.9

100.3

102.8

97.8

122.2

112.4

104

072617

Fax: 562 989-4040

CA 90755

Tel: 562 989-4045

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

TestCode: 6010 S

POL

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

TestNo: EPA 6010B

SPK value

125

125

125

125

125

125

125

125

125

125

125

125

125

125

125

125

Units: mg/Kg

0

0

0.9116

47.32

6.765

3.71

7.288

1.941

5.359

11.77

14.74

0

0

0

%REC

72.8

83.2

81.5

83.6

82.1

82.8

80.3

89.8

78.9

85.6

79.6

80.2

82.2

78.2

88.3

78.1

(EPA 3050B)

SPK Ref Val

DO- Surrogate dilute out

H - Sample exceeded holding time

ANALYTICAL QC SUMMARY REPORT

Run ID: ICP6 041206A

RPDLImit

20

20

20

20

20

20

20

20

20

20

20

20

20

20

20

20

Qual

SeqNo: 646125

%RPD

2.52

1.41

5.15

1.60

1.34

1.66

1.78

1.84

2.18

1.85

1.48

2.14

2.00

2.22

1.64

3.83

TestCode: 6010 S

88.74

103.5

141.7

102.8

101.3

108.5

102.2

117.3

98.35

103.3

98.18

100.8

95.65

120.2

108.2

105

Prep Date: 12/6/2004

LowLimit HighLimit RPD Ref Val

118

111

146

120

107

119

111

136

125

116

116

118

125

116

122

140

Analysis Date: 12/6/2004

23

64

36

50

62

63

63

58

47

63

57

47

48

49

65

36

Ninyo & Moore

Work Order: 072617

Project:

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: MB-20456	SampType: MBLK	TestCode: 7471_\$	Units: mg/Kg	Prep Date: 12/6/2004	Run ID: AA1_041206A
Client ID: ZZZZZ	Batch ID: 20456	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 12/6/2004	SeqNo: 645985
Analyte	Result	PQL SPK value S	PK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury	ND	0.10			
Sample ID: LCS-20456	SampType: LCS	TestCode: 7471_\$	Units: mg/Kg	Prep Date: 12/6/2004	Run ID: AA1_041208A
Client ID: ZZZZZ	Batch ID: 20456	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 12/6/2004	SeqNo: 645984
Analyte	Result	PQL SPK value S	PK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLImit Qual
Mercury	2.225	0.10 2.08	0	107 80 120 0	0
Sample ID: 072646-001AMS	SampType: MS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 12/6/2004	Run ID: AA1_041206A
Client ID: ZZZZZ	Batch ID: 20456	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 12/6/2004	SeqNo: 645982
Analyte	Result	PQL SPK value S	PK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury	0.8158	0.10 0.83	0.03322	94.3 62 146 0	0
Sample ID: 072646-001AMSD	SampType: MSD	TestCode: 7471_S	Units: mg/Kg	Prep Date: 12/6/2004	Run ID: AA1_041206A
Client ID: ZZZZZ	Batch ID: 20456	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 12/6/2004	SeqNo: 645983
			514.5.414.1	WASS I WHITE HIS BOD DOLLER	%RPD RPDLimit Qual
Analyte	Result	PQL SPK value S	PK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Page 4 of 16

Ninyo & Moore

Work Order:

072617

Project:

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_G 5035P

Sample ID: E	120104MB	SampType:	MBLK	TestCod	e: 6015_S_G	50 Units: mg/Kg		Prep Dat	te:		Run ID: GC	2_041201A	
Client ID: Z	7777	Batch ID:	E04VS342	TestN	o: EPA 8015	B(M		Analysis Dat	te: 12/1/20	004	SeqNo: 64	4190	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO			ND	1.0									
Surr. Brome	ofluorobenzene (FID)		87.98	0	100	0	88	27	135	0	0		
Sample ID: E	120204MB2	SampType:	MBLK	TestCod	e: 8015_S_ G	50 Units: mg/Kg		Prep Dat	te:		Run ID: GC	2_041202B	
Client ID: Z	7777	Batch ID:	E04V8344	TestN	o: EPA 8015	B(M		Analysis Dat	te: 12/2/20	004	SeqNo: 64	5181	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO			ND	1.0									
Surr: Bromo	ofluorobenzene (FID)		90.48	0	100	0	90.5	27	135	0	0		
Sample ID: E	120104LC	SampType:	LC8	TestCod	e: 8015_S_G	50 Units: mg/Kg		Prep Dat	te:		Run ID: GC	2_041201A	
Client ID: Z	7777.	Batch ID:	E04VS342	TestN	o: EPA 8015	B(M		Analysis Dat	te: 12/1/20	004	SegNo: 64	4194	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO			4.699	1.0	5	0	94	76	116	0	0		
Surr: Bromo	ofluorobenzene (FID)		112.5	0	100	0	113	27	135	0	0		
Sample ID: E	120204LC2	SampType:	LCS	TestCod	e: 8015_S_G	50 Units: mg/Kg		Prep Dat	te:		Run ID: GC	2_041202B	
Client ID: Z	7777	Batch ID:	E04VS344	TestN	o: EPA 8015	В(М		Analysis Dat	te: 12/3/2 0	004	SeqNo: 64	5197	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	High⊔mit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO			4.309	1.0	5	0	86.2	76	116	0	0		
Surr: Bromo	ofluorobenzene (FID)		118.2	0	100	0	118	27	135	0	0		
Sample ID: 07	72627-006AMS	SampType:	MS	TestCod	e: 8015_S_G	50 Units: mg/Kg		Prep Dat	te:		Run ID: GC	2_041201A	
Client ID: Z	2222	Batch ID:	E04VS342	TestN	o: EPA 8015	B(M		Analysis Dat	te: 12/1/20	004	SeqNo: 64	4192	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO			409.8	50	250	343.4	26.5	27	137	0	0		s
Qualifiers:	ND - Not Detecte	d at the Repo	rting Limit	\$ - Sp	ike Recovery	outside accepted recove	ry limits	DO-	Surrogate di	ilute out			
	J - Analyte detected below quantitation limits			B - Analyte detected in the associated Method Blank			i Blank H - Sample exceeded holding time						
	R - RPD outside	accepted reco	v or y limits	Calcu	lations are ba	sed on raw values						Page	5 of 16

Tel: 562 989-4045 Fax: 562 989-4040

CLIENT:

Ninyo & Moore

Work Order:

072617

Bloomfield II 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015 S G 5035P

Project: Bloomheld							esicode: a	010_0_0				
Sample ID: 072627-006AMS	SampType: MS	TestCod	 te: 8015_S_G	50 Units: mg/Kg	-	Prep Dat	te:		Run ID: GC	2_041201A		
Client ID: ZZZZZ	Batch ID: E04VS342	TestN	TestNo: EPA 8015B(M			Analysis Dat	te: 12/1/20	004	SeqNo: 644192			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Vai	%RPD	RPDLimit	Qual	
Surr: Bromofluorobenzene (FID) 4749	0	5000	0	95	27	135	0	0			
Sample ID: 072648-024AMS SampType: MS			TestCode: 8015_S_G 50 Units: mg/Kg			Prep Date:				Run ID: GC2_041202B		
Client ID: ZZZZZ	Batch ID: E04VS344	TestNo: EPA 8015B(M			Analysis Date: 12/3/2004				SeqNo: 645199			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
GRO	2.789	1.0	5	0	55.8	27	137	0	0			
Surr: Bromofluorobenzene (FID	95.45	0	100	0	95.4	27	135	0	0			
	TestCode: 8015_S_G 50 Units: mg/Kg			Prep Date:				Run ID: GC2_041201A				
Sample ID: 072627-006AMSD	SampType: MSD	TestCoo	de: 8015_S_ G	50 Units: mg/Kg		Prep Dat	te:		Run ID: GC	2_041201A		
Sample ID: 072627-006AMSD Client ID: 22222	SampType: MSD Batch ID: E04VS342		ie: 8015_S_G lo: EPA 8015			Prep Dat Analysis Dat		004	Run ID: GC SeqNo: 644	-		
•			lo: EPA 8015		%REC	Analysis Da	te: 12/1/20	004 RPD Ref Val		-	Qual	
Client ID: ZZZZZ	Batch ID: E04VS342	TestN	lo: EPA 8015	В(М		Analysis Da	te: 12/1/20		SeqNo: 644	1193	Qual	
Client ID: ZZZZZ Analyte	Result 476.8	PQL	No: EPA 8015 SPK value	B(M SPK Ref Val	%REC	Analysis Da	te: 12/1/20	RPD Ref Val	SeqNo: 644 %RPD	RPDLimit	Qual	
Client ID: ZZZZZZ Analyte GRO	Result 476.8	PQL 50 0	No: EPA 8015 SPK value 250 5000	SPK Ref Val	%REC	Analysis Dai	te: 12/1/20 HighLimit 137 135	RPD Ref Val	SeqNo: 644 %RPD 15.1	RPDLimit 30 0	Qual	
Client ID: ZZZZZ Analyte GRO Surr. Bromofluorobenzene (FID	Batch ID: E04VS342 Result 476.8 6084	PQL 50 0 TestCoo	No: EPA 8015 SPK value 250 5000	SPK Ref Vel 343.4 0 6 50 Units: mg/Kg	%REC 53.3 122	Analysis Da Low⊔mit 27 27	HighLimit 137 135	RPD Ref Val 409.8 0	SeqNo: 644 %RPD 15.1 0	RPDLImit 30 0 2_041202B	Qual	
Client ID: ZZZZZ Analyte GRO Surr: Bromofluorobenzene (FID Sample ID: 072648-024AMSD	Result 476.8 6084 SampType: MSD	PQL 50 0 TestCoo	SPK value 250 5000 de: 8015_S_G	SPK Ref Vel 343.4 0 6 50 Units: mg/Kg	%REC 53.3 122	Analysis Dai LowLimit 27 27 Prep Dai Analysis Dai	HighLimit 137 135 te: 12/3/20	RPD Ref Val 409.8 0	\$eqNo: 644 %RPD 15.1 0 Run ID: GC	RPDLImit 30 0 2_041202B	Qual	
Client ID: ZZZZZ Analyte GRO Surr: Bromofluorobenzene (FID: Sample ID: 072648-024AMSD Client ID: ZZZZZZ	Batch ID: E04V\$342 Result 476.8 6084 SampType: MSD Batch ID: E04V\$344	PQL 50 0 TestCox	SPK value 250 5000 de: 8015_S_G	SPK Ref Val 343.4 0 650 Units: mg/Kg	%REC 53.3 122	Analysis Dai LowLimit 27 27 Prep Dai Analysis Dai	HighLimit 137 135 te: 12/3/20	RPD Ref Val 409.8 0	SeqNo: 644 %RPD 15.1 0 Run ID: GC SeqNo: 645	RPDLimit 30 0 2_041202B		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Page 6 of 16

Fax: 562 989-4040

CLIENT:

Ninyo & Moore

Work Order: Project:

072617

Bloomfield II. 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260 S 5035

Sample ID: R041201MB2	SampType: MBLK	TestCod	de: 8260_S_5	035 Units: µg/Kg		Prep Da	te:		Run ID: MS	3_041201A	
Client ID: ZZZZZ	Batch ID: R04VS193	Test	No: EPA 8260	В		Analysis Da	te: 12/1/20	04	SeqNo: 644	1217	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLImit	Qua
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichiorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND:	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	. ND	5.0									
4-isopropytoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Page 7 of 16

CLIENT:

Ninyo & Moore

Work Order: Project:

072617

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260 S 5035

Sample ID: R041201MB2	SampType: MBLK	TestCo	de: 8260_S_5	035 Units: μg/Κρ	,	Prep Da	ite:		Run ID: MS	3_041201A	
Client ID: 22222	Batch ID: R04VS193	Test	No: EPA 8260	В		Analysis Da	ite: 12/1/2004		SeqNo: 644	1217	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD	Ref Val	, %RPD	RPD⊔mlt	Qua
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chioroform	ND	5.0									
Chloromethane	ND	5.0									
cls-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
n-Butytbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	- ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	48.29	5.0	50	0	96.6	61	164	0	0		
Sur: 4-Bromofluorobenzene		5.0	50	0	91	80	123	0	0		
Surr: Dibromofluoromethane		5.0	50	0	101	78	141	0	0		

Qualifiers:

ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank

H - Sample exceeded holding time

DO- Surrogate dilute out

Calculations are based on raw values

Page 8 of 16

Ninyo & Moore

Work Order: 072617

Project: Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID: R041201MB2 Client ID: ZZZZZ	SampType: MBLK Batch ID: R04VS193		de: 8260_\$_5 No: EPA 8260	035 Units: µg/Kg B		Prep Da Analysis Da		004	Run ID: MS SeqNo: 644	_	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	50.33	5.0	50	0	101	88	123	0	0		
Sample ID: R041201LC1	SampType: LCS	TestCo	de: 8260 S 5	035 Units: μg/Kg		Prep Da	ite:		Run ID: MS	3 041201A	

Sample ID: R041201LC1	SampType: LCS	TestCo	de: 8260_S_5	035 Units: µg/Kg		Prep Da	te:		Run ID: MS	3_041201A	
Client ID: ZZZZZ	Batch iD: R04VS193	Testi	No: EPA 8260	В		Analysis Da	te: 12/1/20	004	SeqNo: 64 4	1214	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	101	5.0	100	0	101	63	127	0	0		
Benzene	110.2	5.0	100	0	110	88	126	0	0		
Chlorobenzene	116.4	5.0	100	0	116	91	133	0	0		
Toluene	111.4	5.0	100	0	111	87	126	0	0		
Trichloroethene	112.8	5.0	100	0	113	86	134	0	0		
Surr: 1,2-Dichloroethane-d4	40.66	5.0	50	0	81.3	61	164	0	0		
Surr: 4-Bromofluorobenzene	50.85	5.0	50	0	102	80	123	0	0		
Surr: Dibromofluoromethane	45.48	5.0	50	0	91	78	141	0	0		
Surr. Toluene-d8	51.9	5.0	50	0	104	66	123	0	0		

Sample ID: R041201MB1MS	SampType: MS	TestCo	de: 8260_S_5	035 Units: µg/Kg		Prep Dat	te:		Run ID: MS	3_041201A	
Client ID: ZZZZZ	Batch ID: R04VS193	Test	lo: EPA 8260	В		Analysis Da	te: 12/ 1/ 2 0	04	SeqNo: 64	4215	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	110.8	5.0	100	0	111	51	128	0	0		
Benzene	122	5.0	100	0	122	65	136	0	0		
Chlorobenzene	128.5	5.0	100	0	128	52	152	0	0		
Toluene	122.4	5.0	100	0	122	56	142	0	0		
Trichloroethene	125.5	5.0	100	0	126	54	155	0	0		
Surr: 1,2-Dichloroethane-d4	43.32	5.0	50	0	86.6	61	164	0	0		
Surr: 4-Bromofluorobenzene	49.47	5.0	50	0	98.9	80	123	0	0		
Surr: Dibromofluoromethane	46.59	5.0	50	0	93.2	78	141	0	0		
Surr: Toluene-d8	51.07	5.0	50	0	102	86	123	0	0		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

dits DO- Surrogate dilute out

Calculations are based on raw values

H - Sample exceeded holding time

Advanced Technology

Signal Hill CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT:

Ninyo & Moore

Work Order: Project:

072617

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID: R041201MB1MSD Client ID: ZZZZZ	SampType: MSD Batch ID: R04VS193		de: 8260_S_5 No: EPA 8260	035 Units: µg/Kg B		Prep Dat Analysis Dat		104	Run ID: MS SeqNo: 644	-	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	108.9	5.0	100	0	109	51	128	110.8	1.71	30	
Benzene	120.6	5.0	100	0	121	65	136	122	1.09	30	
Chlorobenzene	129.2	5.0	100	0	129	52	152	128.5	0.574	30	
Toluene	120.9	5.0	100	0	121	56	142	122.4	1.27	30	
Trichloroethene	123.3	5.0	100	0	123	54	. 155	125.5	1,78	30	
Surr: 1,2-Dichloroethane-d4	42.5	5.0	50	0	85	61	164	0	0	30	
Surr: 4-Bromofluorobenzene	51.6	5.0	50	0	103	80	123	0	. 0	30.	
Surr: Dibromofluoromethane	46.9	5.0	50	0	93.8	78	141	0	0	30	
Surr: Toluene-d8	50.74	5.0	50	0	101	86	123	0	0	30	

Qualifiers:

ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

CLIENT: Work Order: Ninyo & Moore

072617

Project:

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID: MB-20428	SampType: MBLK	TestCo	de: 8270_S_F	UL Units: µg/Kg		Prep Date:	12/2/200	04	Run ID: MS	7_041202A	
Client ID: ZZZZZ	Batch ID: 20428	Testh	lo: EPA 8270	C (EPA 3550B)		Analysis Date:	12/2/200	04	SeqNo: 646	5025	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit F	lighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnephthalene	ND	330									
Acenaphthene	ND	330					,				
Acenaphthylene	ND	330									
Anthracene	ND	330									
Benzo(a)anthracene	ND	330									
Benzo(a)pyrene	ND	330									
Benzo(b)fluoranthene	ND	330									
Benzo(g,h,i)perylene	ND	330									
Benzo(k)fluoranthene	.ND	330									
Chrysene	ND	330									
Dibenz(a,h)anthracene	ND	330									
Fluoranthene	ND	330									
Fluorene	ND	330									
indeno(1,2,3-cd)pyrene	ND	330									
Naphthalene	ND	330									
Phenanthrene	ND	330									
Pyrene	ND	330									
Surr: 1,2-Dichlorobenzene-d4	2576	0.	3330	. 0	77.4	37	103	0	0		
Surr: 2-Fluorobiphenyl	2505	0	3330	0	75.2	37	113	0	0		
Surr: 4-Terphenyl-d14	2848	0	3330	0	85.5	46	123	0	0		
Surr; Nitrobenzene-d5	2882	0	3330	0	86.5	39	108	0	0		
Sample ID: MB-20428	SampType: MBLK	TestCo	de: 8270_S_F	UL Units: µg/Kg		Prep Date:	12/2/20	04	Run ID: MS	6_041202A	
Client ID: ZZZZZ	Batch ID: 20428	Testi	lo: EPA 8270	C (EPA 3550B)		Analysis Date:	12/2/200	04	SeqNo: 64 !	5097	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	High⊔mit	RPD Ref Val	%RPD	RPDLImit	Qua
2-Methylnaphthalene	ND	330									

Qualifiers:

Acenaphthene

Anthracene

Acenaphthylene

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

ND

ND

ND

330

330

330

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Page 11 of 16

Tel: 562 989-4045

Fax: 562 989-4040

Work Order:

CLIENT:

Project:

Ninyo & Moore

072617

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID: MB-20428	SampType: MBLK		le: 8270_S_FL				te: 12/2/200			6_041202A	
Client ID: 22222	Batch ID: 20428	TestN	o: EPA 8270C	(EPA 3550B)		Analysis Dat	te: 12/2/200)4	SeqNo: 64	5097	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	ND .	330									-
Benzo(a)pyrene	ND	330									
Benzo(b)fluoranthene	ND	330									
Benzo(g,h,i)perylene	ND	330									
Benzo(k)fluoranthene	ND	330									
Chrysene	ND	330									
Dibenz(a,h)anthracene	ND	330									
Fluoranthene	ND	330									
Fluorene	ND	330									
Indeno(1,2,3-cd)pyrene	ND	330									
Naphthalene	ND	330									
Phenanthrene	ND	330									
Pyrene	ND	330									
Surr: 1,2-Dichlorobenzene-d4	2630	0	3330	0	79	37	103	0	0		
Surr: 2-Fluorobiphenyl	2986	0	3330	0	89.7	37	113	0	0		
Surr: 4-Terphenyl-d14	3284	0	3330	0	98.6	46	123	0	0		
Surr: Nitrobenzene-d5	2843	0	3330	0	65.4	39	108	0	0		
Sample ID: MR-28428	SampType: MRI K	TestCod	e: 8270 S FI	I Units: ua/Ka	-	Pren Dat	e: 12/2/200	M	Run (D: MS	7 041202A	

Sample ID: MB-20428 Client ID: 22222	SampType: MBLK Batch ID: 20428		8270_S_FUI EPA 8270C			Prep Da Analysis Da	te: 12/2/20 te: 12/3/20		Run ID: MS SeqNo: 64	_	
Analyte	Result	PQL S	PK value S	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDUmit	Qual
2-Methylnaphthalene	ND	330									
Acenaphthene	, ND	330									
Acenaphthylene	ND	330									
Anthracene	ND	330									
Benzo(a)anthracene	ND	330									
Benzo(a)pyrene	ND	330									
Benzo(b)fluoranthene	ND	330									
Benzo(g,h,i)perylene	ND	330									

Qualiflers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Page 12 of 16

CLIENT:

Ninyo & Moore

Work Order:

072617

Project:

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID: MB-20428	SampType: MBLK	TestCode: 82	70_S_FUL	. Units: µg/Kg		Prep Date	: 12/2/20	04	Run ID: MS	7_041202A	
Client ID: ZZZZZ	Batch ID: 20428	TestNo: E	PA 8270C	(EPA 3550B)		Analysis Date	: 12/3/20	104	SeqNo: 64	5433	
Analyte	Result	PQL SP	K value S	PK Ref Val	%REC	LowLimit 1	HighLimit	RPD Ref Val	%RPD	RPDLImit	Qual
Benzo(k)fluoranthene	ND	330									
Chrysene	ND	330									
Dibenz(a,h)anthracene	ND	330									
Fluoranthene	ND	330									
Fluorene	ND	330									
Indeno(1,2,3-cd)pyrene	NĎ	330									
Naphthalene	ND	330									
Phenanthrene	ND	330									
Pyrene	ND	330									
Surr: 1,2-Dichlorobenzene-d4	2548	0	3330	0	76.5	37	103	0	0		
Surr: 2-Fluorobiphenyl	2522	0	3330	0	75.7	37	113	0	0		
Surr: 4-Terphenyl-d14	3115	0	3330	0	93.5	46	123	0	0		
Surr: Nitrobenzene-d5	2920	0	3330	0	87.7	39	108	0	0		
Sample ID: MB-20428	SampType: MBLK	TestCode: 8:	270_S_FUL	Units: µg/Kg		Prep Date	: 12/2/20	004	Run ID: MS	7_041202A	
Client ID: ZZZZZ	Batch ID: 20428	TestNo: E	PA 8270C	(EPA 3550B)		Analysis Date	: 12/6/20	004	SeqNo: 64	5952	
Analyte	Result	PQL SP	K value S	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	330									
Acenaphthene	ND	330									
Acenaphthylene	ND	330									
Anthracene	ND	330									
Benzo(a)anthracene	- ND	330									
Benzo(a)pyrene	ND	330									
Benzo(b)fluoranthene	ND	330									
Benzo(g,h,i)perylene	ND	330									
Benzo(k)fluoranthene	ND	330									
Chrysene	ND	330									
•											
Dibenz(a,h)anthracene	ND	330									

Qualiflers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

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CLIENT: Work Order:

Ninyo & Moore

072617

Project:

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID: MB-20428	SampType: MBLK	TestCod	ie: 8270_S_FUL	_ Units: μg/Kg		Prep Date	: 12/2/20	04	Run ID: MS	7_041202A	
Client ID: ZZZZZ	Batch ID: 20428	TestN	lo: EPA 8270C	(EPA 3550B)		Analysis Date	: 12/6/20	04	SeqNo: 644	952	
Analyte	Result	PQL	SPK value S	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	ND	330									
Indeno(1,2,3-cd)pyrene	ND	330									
Naphthalene	ND	330									
Phenanthrene	ND	330									
Pyrene	ND	330									
Surr: 1,2-Dichlorobenzene-d4	2566	0	3330	0	77.1	37	103	0	0		
Surr: 2-Fluorobiphenyl	2482	0 -	3330	0	74.5	37	113	0	0		
Surr: 4-Terphenyl-d14	3400	0	3330	0	102	46	123	0	0		
Surr: Nitrobenzene-d5	2897	0	3330	0	87	39	108	0	0		
Sample ID: LCS-20428	SampType: LCS	TestCoo	de: 8270_\$_ FUL	Units: µg/Kg		Prep Date	: 12/2/20	04	Run ID: MS	7_041202A	
Client ID: ZZZZZ	Batch ID: 20428	Testh	lo: EPA 8270C	(EPA 3550B)		Analysis Date	: 12/2/20	04	SeqNo: 64	5026	
Analyte	Result	PQL	SPK value S	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	2339	330	3330	0	70.3	64	95	0	0		
Pyrene	2653	330	3330	0	79.7	6 3	100	0	0		
Surr: 1,2-Dichlorobenzene-d4	2553	0	3330	0	76.7	37	103	0	0		
Surr: 2-Fluorobiphenyl	2435	0	3330	0	73.1	37	113	0	0		
Surr: 4-Terphenyl-d14	3195	0	3330	0	96	46	123	0	0		
Surr. Nitrobenzene-d5	2965	0	3330	0	89	39	108	0	0		
Sample ID: LCS-20428	SampType: LCS	TestCo	de: 8270_S_FUI	L Units: µg/Kg		Prep Date	e: 12/2/20	04	Run ID: MS	6_041202A	
Client ID: ZZZZZ	_ Batch ID: 20428	Testh	lo: EPA 8270C	(EPA 3550B)		Analysis Date	a: 12/2/ 20	04	SeqNo: 64	5098	
Analyte	Result	PQL	SPK value S	SPK Ref Val	%REC	LowLimit	HighUmit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	2980	330	3330	0	89.5	64	95	0	0		
Pyrene	2752	330	3330	0	82.7	63	100	0	0		
Surr. 1,2-Dichlorobenzene-d4	2635	0	3330	0	79.1	37	103	0	0		
Surr: 2-Fluorobiphenyl	2974	0	3330	0	89.3	37	113	0	0		
Surr: 4-Terphenyl-d14	3343	0	3330	0	100	46	123	0	0		
Qualifiers: ND - Not Detec	ted at the Reporting Limit	S - S	pike Recovery out	side accepted recov	ry limits	DO-	Surrogate di	lute out			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

Calculations are based on raw values

H - Sample exceeded holding time

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CLIENT: Work Order: Ninyo & Moore

072617

Project:

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID: LCS-2													
	0428 Sa	ampType:	LCS	TestCod	e: 8270_\$_F	UL Units: µg/Kg		Prep Date	e: 12/2/20	04	Run ID: MS	6_041202A	
Client ID: ZZZZZ	2	Batch ID:	20428	TestN	o: EPA 8270 0	C (EPA 3550B)		Analysis Date	e: 12/2/20	04	SeqNo: 645	5098	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Nitrobenze	ne-d5		2813	0	3330	0 .	84.5	39	108	0	0		
Sample ID: LCS-2	0428 S	ampType:	LCS	TestCod	e: 8270_ S_F	UL Units: µg/Kg		Prep Date	e: 12/2/20	04	Run ID: MS	7_041202A	
Client ID: ZZZZZ	2	Batch ID:	20428	TestN	lo: EPA 8270 0	C (EPA 3550B)		Analysis Dat	e: 12/3/20	04	SeqNo: 645	5434	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Vai	%RPD	RPDLimit	Qual
Acenaphthene			2404	330	3330	0	72.2	64	95	0	0		
Pyrene			2619	330	3330	0	78.6	63	100	0	0		
Surr: 1,2-Dichlor	robenzene-d4		2568	0	3330	0	77.1	37	103	0	0		
Surr. 2-Fluorobin	phenyl		2406	0	3330	0	72.3	37	113	0	0		
Surr: 4-Terpheny	yi-d14		3273	0	3330	0	98.3	46	123	0	0		
Surr: Nitrobenze	ene-d5		2953	0	3330	0	88.7	39	108	0	0		
Sample ID: LCS-2	0428 S	ampType:	LCS	TestCod	e: 8270_S_F	UL Units: µg/Kg		Prep Date	e: 12/2/20	04	Run ID: MS	7_041202A	
Client ID: 22222	2	Batch ID:	20428	TestN	lo: EPA 8270 0	C (EPA 3550B)	•	Analysis Dat	e: 12/6/20	04	SeqNo: 645	595 3	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene			2346	330	3330	0	70.5	64	95	0	0		
Pyrene			2693	330	3330	0	80.9	63	100	0	0		
0 4.0 Di	robenzene-d4		2541	0		0		37	103	0			
Sun: 1,2-Dichio					3330	U	76.3	3/	103		0		
Sum: 1,2-Dichlor Sum: 2-Fluorobit	phenyl		2414	0	3330	0	76.3 72.5	37	113	0	0		
			2414 3217	0				-		0	•		
Surr: 2-Fluorobig	yl-d14			•	3330	0	72.5	37	113	•	0		
Surr: 2-Fluorobin Surr: 4-Terphen	yl-d14 ene-d5 -	ampType:	3217 2991	0	3330 3330	0 0 0	72.5 96.6	37 46 39	113 123	0	0	37_041202A	
Surr: 2-Fluorobit Surr: 4-Terphen Surr: Nitrobenze	yl-d14 ene-d5 -	ampType: Batch ID:	3217 2991 MS	0 0 TestCod	3330 3330 3330	0 0 0 UL Units: µg/Kg	72.5 96.6	37 46 39	113 123 108 e: 12/2/20	0 0	0	_	•
Surr: 2-Fluorobit Surr: 4-Terphent Surr: Nitrobenze Sample ID: mb-20	yl-d14 ene-d5 -		3217 2991 MS	0 0 TestCod	3330 3330 3330 le: 8270_S_F	0 0 0 UL Units: µg/Kg	72.5 96.6	37 46 39 Prep Dat Analysis Dat	113 123 108 e: 12/2/20	0 0	0 0 0 Run iD: MS	_	Qual
Surr: 2-Fluorobit Surr: 4-Terphen; Surr: Nitrobenze Sample ID: mb-20 Client ID: ZZZZZZ Analyte	yl-d14 ene-d5 -		3217 2991 MS 20428	0 0 TestCod	3330 3330 3330 le: 8270_S_F	0 0 0 UL Units: μg/Kg C (EPA 3550B)	72.5 96.6 89.8	37 46 39 Prep Dat Analysis Dat	113 123 108 e: 12/2/20	0 0	0 0 0 Run ID: MS SeqNo: 648	5137	Qual
Surr: 2-Fluorobig Surr: 4-Terphen Surr: Nitrobenze Sample ID: mb-20 Client ID: 22222	yl-d14 ene-d5 -		3217 2991 MS 20428 Result	0 0 TestCod TestN	3330 3330 3330 le: 8270_S_F lo: EPA 82700 SPK value	0 0 0 UL Units: µg/Kg C (EPA 3550B)	72.5 96.6 89.8 %REC	37 46 39 Prep Dat Analysis Dat LowLimit	113 123 108 e: 12/2/20 e: 12/3/20 HighLimit	0 0 104 104 RPD Ref Val	0 0 0 Run ID: MS SeqNo: 645	5137	Qual
Surr: 2-Fluorobit Surr: 4-Terphen; Surr: Nitrobenze Sample ID: mb-20 Client ID: ZZZZZZ Analyte Acenaphthene	yl-d14 ene-d5 -	Batch ID:	3217 2991 MS 20428 Result 2443 2719	0 0 TestCod TestN PQL 330 330	3330 3330 3330 3330 le: 8270_S_F lo: EPA 8270 SPK value 3330 3330	0 0 0 0 UL Units: µg/Kg C (EPA 3550B) SPK Ref Val 0	72.5 96.6 89.8 %REC 73.4 81.7	37 46 39 Prep Dat Analysis Dat LowLimit 64 63	113 123 108 e: 12/2/20 e: 12/3/20 HighLimit	0 0 0 104 104 RPD Ref Val 0 0	Run ID: MS SeqNo: 648 %RPD	5137	Qual
Surr: 2-Fluorobit Surr: 4-Terphen; Surr: Nitrobenze Sample ID: mb-20 Client ID: ZZZZZ Analyte Aconaphthene Pyrene	yl-d14 ene-d5 - 9428MS S: Z	Batch ID:	3217 2991 MS 20428 Result 2443 2719	0 0 TestCod TestN PQL 330 330 S - Sp	3330 3330 3330 3330 de: 8270_S_F lo: EPA 8270 SPK value 3330 3330	O O O O O O O O O O O O O O O O O O O	72.5 96.6 89.8 %REC 73.4 81.7	37 46 39 Prep Dat Analysis Dat LowLimit 64 63	113 123 108 e: 12/2/20 e: 12/3/20 HighLimit 95 100	0 0 0 104 104 RPD Ref Val 0 0	0 0 0 0 Run iD: MS SeqNo: 64! %RPD 0	5137	Qual

CLIENT:

Ninyo & Moore

Work Order: Project: 072617

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270 S FULL

Sample ID: mb-20428MS Client ID: ZZZZZ	SampType: MS Batch ID: 20428		le: 8270_S_FU			Prep Dat Analysis Dat	te: 12/2/20 te: 12/3/20		Run ID: MS SeqNo: 644	_	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr. 1,2-Dichlorobenzene-d4	2519	0	3330	0	75.7	37	103	0	0		
Surr: 2-Fluorobiphenyl	2400	0	3330	0	72.1	37	113	. 0	0		
Surr. 4-Terphenyl-d14	3203	0	3330	0	96.2	46	123	0	0		
Surr. Nitrobenzene-d5	2992	0	3330	0	89.9	39	108	0	0		
Sample ID: mb-20428MSD	SampType: MSD	TestCod	le: 8270_S_FI	JL Units: µg/Kg		Prep Da	te: 12/2/20	04	Run ID: MS	7_041202A	
Client ID: ZZZZZ	Batch ID: 20428	TestN	lo: EPA 8270 0	(EPA 3550B)		Analysis Da	te: 12/3/20	04	SeqNo: 64 5	5138	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	2085	330	3330	0	62.6	64	95	2443	15.8	30	s
Ругеле	2324	330	3330	0	69.8	63	100	2719	15.7	30	
Surr: 1,2-Dichlorobenzene-d4	1645	0	3330	0	49.4	37	103	0	0	0	
Surr: 2-Fluorobiphenyl	1728	0	3330	0	51.9	37	113	0	0	0	
Surr. 4-Terphenyl-d14	2410	0	3330	0	72.4	46	123	. 0	0	0	
Surr. Nitrobenzene-d5	1960	0	3330	0	58.8	39	108	0	0	0	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Date: 08-Dec-04

Run ID: GC7 041130B

SeqNo: 646173

CLIENT: Ninyo & Work Order: 072617

Client ID: ZZZZZ

Ninyo & Moore

Project:

Bloomfield II, 205372005

SampType: MBLK

Batch iD: 20414

ANALYTICAL QC SUMMARY REPORT

Prep Date: 12/1/2004

Analysis Date: 12/5/2004

TestCode: HC_S_SVOA

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighUmit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C12	ND	10									
T/R Hydrocarbons: C13-C15	ND	10									
T/R Hydrocarbons: C16-C22	ND	10									
T/R Hydrocarbons: C23-C32	ND	10									
T/R Hydrocarbons: >C32	ND	10									
Surr: p-Terphenyi	85.52	10	80	0	107	60	129	0	0		
Sample ID: MB-20414	SampType: MBLK	TestCoo	de: HC_S_SV	DA Units: mg/Kg		Prep Da	te: 12/1/20	004	Run ID: GC	7_041130B	
Client ID: ZZZZZ	Batch ID: 20414	Testh	lo: EPA 80158	B (LUFT)		Analysis Da	te: 12/7/20	04	SeqNo: 646	5826	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	High⊔mit	RPD Ref Val	%RPD	RPDLImit	Qual
T/R Hydrocarbons: C10-C12	ND.	10									
T/R Hydrocarbons: C13-C15	ND.	10									
T/R Hydrocarbons: C16-C22	ND	10									
T/R Hydrocarbons: C23-C32	ND	10									
T/R Hydrocarbons: >C32	ND	10									
Surr: p-Temphenyl	99.33	10	80	0		60	129	0	0		

Units: ma/Ka

(LUFT)

TestCode: HC S SVOA

TestNo: EPA 8015B

Qualiflers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Page 1 of 1

Advanced Technology Laboratories

CLIENT: Ninyo & Moore

Work Order: 072617

Project: Bloomfield II, 205372005

Date: 08-Dec-04

ANALYTICAL QC SUMMARY REPORT BatchID: 20414

			·	
Sample ID: LCS-20414	SampType: LCS	TestCode: 8015_S_DM Units: mg/Kg	Prep Date: 12/1/2004	Run ID: GC7_041130B
Client ID: ZZZZZ	Batch ID: 20414	TestNo: EPA 8015B(M (LUFT)	Analysis Date: 12/1/2004	SeqNo: 643683
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Diesel	1060	10 1000 0	106 73 125 0	0
Surr. p-Terphenyl	91.61	0 80 0	115 60 129 0	0
Sample ID: LCS-20414	SampType: LCS	TestCode: 8015_S_DM Units: mg/Kg	Prep Date: 12/1/2004	Run ID: GC7_041130B
Client ID: ZZZZZ	Batch ID: 20414	TestNo: EPA 8015B(M (LUFT)	Analysis Date: 12/5/2004	SeqNo: 646172
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Quai
Diesel	975.3	10 1000 0	97.5 73 125 0	0
Surr: p-Terphenyl	84.32	0 80 0	105 60 129 0	0
Sample ID: LCS-20414	SampType: LCS	TestCode: 8015_S_DM Units: mg/Kg	Prep Date: 12/1/2004	Run ID: GC7_041130B
Client (D: ZZZZZ	Batch ID: 20414	TestNo: EPA 8015B(M (LUFT)	Analysis Date: 12/7/2004	SeqNo: 646825
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Diesel	1014	10 1000 0	101 73 125 0	0
Surr: p-Terphenyl	102.6	0 80 0	126 60 129 0	0
Sample ID: 072627-006AMS	SampType: MS	TestCode: 8015_S_DM Units: mg/Kg	Prep Date: 12/1/2004	Run ID: GC7_041130B
Client ID: ZZZZZ	Batch ID: 20414	TestNo: EPA 8015B(M (LUFT)	Analysis Date: 12/1/2004	SeqNo: 643684
Analyte	. Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Diesel	3783	20 1000 2620	116 70 128 0	0
Surr: p-Terphenyl	62.5	0 80 0	78.1 60 129 0	0
Sample iD: 072627-006AMSD	SampType: MSD	TestCode: 8015_S_DM Units: mg/Kg	Prep Date: 12/1/2004	Run ID: GC7_041130B
Client ID: ZZZZZ	Batch ID: 20414	TestNo: EPA 8015B(M (LUFT)	Analysis Date: 12/1/2004	SeqNo: 643685
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike/Surrogate outside limits due to matrix interference

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO - Surrogate diluted out

H - Sample exceeded holding time

Page 1 of 2

CLIENT:

Ninyo & Moore

Work Order: 072617 Project:

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

BatchID: 20414

Sample ID: 072627-006AMSD Client ID: ZZZZZ	SampType: MSD Batch ID: 20414		ie: 8015_S_D io: EPA 8015			Prep Dai Analysis Dai	te: 12/1/20 te: 12/1/20		Run ID: GC SeqNo: 643	_	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	3439	20	1000	2620	81.9	70	128	3783	9.54	30	
Surr: p-Terphenyl	55.02	0	60	0	68.8	60	129	0	0	30	

Qualifiers:

ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

S - Spike/Surrogate outside limits due to matrix interference

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO - Surrogate diluted out

H - Sample exceeded holding time

Page 2 of 2

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Attr					City						State	9			Zip C				FAX	(
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Attn: Nanyo Pomoore	City		State (Printed Name)	Zip Code (Signature	(FAX:()	
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Refinquished by: (Signature and Printed Name)	Date : 11-30-04	2.77	9d by: (Signeture and Printed Name)	USS	Date: 11 /30/0	ry ime: 15 35
Relinquished by: (Signature and Printed Name)	Date :		BC DY: (Signature and Printed Name)		Date:	Time:
Relinquished by: (Signature and Printed Hame) hereby authorize ATL to perform the work Send Report To:	Date :	Time: Receive	ed by: (Signature and Printed Name)	al Instructions/Comments:	Date.	time:
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Sample/Records - Archival & Disposal Unless otherwise requested by client, all samples will be dispose	ed 45 days after	Analysis(es) / /		//_///	MATRIX	
receipt and records will be disposed 1 year after submittal of final	report.	Requested / /		(\$		RTNE [
Storage Fees (applies when storage is requested): Sample: \$2.00 / sample / mo (after 45 days)				9.3 / / /s/	////	SWRCB □
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• TAT starts 8 a.m. following day if	Next works	ay C= 2 Workday	s D= 3 Workdays	E= 7 Workdays	H=Hci N=HNOs S=	
Container Types: T=	Tube V=VOA	L=Liter P≕Pint J=Ja	r B=Tedlar G=Glass	P=Plastic M=Metal	Z≃Zn(AC)₂ O=NaO	H T=Na ₂ S ₂ O ₃

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Advanced Technol	- 65			Method Clier ATL	d of Transport		pple Condition Upon Receipt	N
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ample/Records - Archival & Dispo Inless otherwise requested by client, scelpt and records will be disposed 1	all samples will be disposed 45 year after submittal of final repo		Circle of Add Analysis(es) Requested	/////		/ /8/ /	PECIFY APPROPRIATE MATRIX Z RTNE [CT [
storage Fees (applies when storage • Sample : \$2.00 / sample / mo (aft • Records : \$1.00 / ATL workorder /	ter 45 days)							
LAB USE ONLY: Batch #:	Sample Description						Container(s) U COTHER	<u> </u>
Lab No. 5	Sample I.D. / Location	Date Tim	ne / 🐉 🐉 🐉	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7777		TAT # Type & REMARI	KS
072417- 071 T3-	1-10					XX	EBJV	
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TAT starts 8 a.m. following day if samples received after 3 p.m.	TAT: A= Overnight ≤ 24 hr	B= Emergence Next work	cday C= 2 Wo	rkdays	3 Workdays	E=Routine 7 Workdays	Preservatives: H=Hcl N=HNO ₃ S=H ₂ SO ₄ C=4	
	Container Types: T=Tub	e V≃VOA	L=Liter P=Pint	J=Jar B=Ted	dlar G=Glass	P=Plastic M=Metal	Z=Zn(AC)2 O=NaOH T=Na2S2	O ₃



14 December 2004

Paul Roberts Ninyo & Moore - Irvine 475 Goddard Suite 200 Irvine, CA 92618

RE:Bloomfield 2

Work Order No.: 0412057

Attached are the results of the analyses for samples received by the laboratory on 12/02/04 09:10.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report. If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth

Restant & From

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS), Environmental Laboratory Accredidation Program (ELAP) No. 2320.



Ninyo & Moore - Irvine 75 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2
Project Number: 205372005
Project Manager: Paul Roberts

Reported: 12/14/04 16:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
■ 4-1-2	0412057-01	Soil	12/01/04 00:00	12/02/04 09:10
■14-2- 2	0412057-04	Soil	12/01/04 00:00	12/02/04 09:10
P1-1-2.5	0412057-07	Soil	12/01/04 00:00	12/02/04 09:10
1-2-2,5	0412057-08	Soil	12/01/04 00:00	12/02/04 09:10
P1-3-2	0412057-09	Soil	12/01/04 00:00	12/02/04 09:10
₹ 1-4-1.5	0412057-10	Soil	12/01/04 00:00	12/02/04 09:10
₹ 1-5-1.5	0412057-11	Soil	12/01/04 00:00	12/02/04 09:10
P 1-6-1.5	0412057-12	Soil	12/01/04 00:00	12/02/04 09:10

CASE NARRATIVE

AMPLE RECEIPT:

Samples were received intact, at 4 °C, and accompanied by chain of custody documentation.

RESERVATION:

Samples requiring preservation were verified prior to sample preparation and analysis.

HOLDING TIMES:

All holding times were met, unless otherwise noted in the report with data qualifiers.

All quality objective criteria were met, except as noted in the report with data qualifiers.



Ninyo & Moore - Irvine 475 Goddard Suite 200

Irvine CA, 92618

Project: Bloomfield 2
Project Number: 205372005

Reported: 12/14/04 16:14

Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Project Manager: Paul Roberts

Reporting				-						
A-1-2 (0412057-01) Soll Sampled: 12/01/04 00:00 Received: 12/02/04 09:10	nalyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Tenetic Section Sect		Sampled: 12/01/04 00:00	Received: 12/	02/04 09:	10					
Baryllium	liver	ND	0.80	mg/kg	1	B4L0906	12/09/04	12/09/04	EPA 6010B	
Beryllium ND 0.68 " 12/13/04 " 12/13/04 " 12/13/04 " 14 2.2 " 12/13/04 " 12/1	rsenic	6.4	1.7				*	#	*	
Admium	Barium	220	3.3	*		п	**	•		
14	Beryllium	ND	0.68					12/13/04	*	
Caronium 32 0.98	dmium	ND	0.51			*	-	12/09/04		
Caronium 32 0.98	balt	14	2.2	•	#		*	12/13/04		
recury ND 0.16 " B4L0907 12/09/04 12/10/04 EPA 7471A Rolybdenum ND 1.7 " B4L0906 12/09/04 12/09/04 EPA 6010B Rolckel 22 0.79 " " " " " " " " " " " " " " " " " " "		32	0.98	*	*	**	**	12/09/04		
recury ND 0.16 " B4L0907 12/09/04 12/10/04 EPA 7471A Mblybdenum ND 1.7 " B4L0906 12/09/04 12/09/04 EPA 6010B Nickel 22 0.79 " " " " " " " " " " " " " " " " " " "	Соррег	26	2.2		-	*	-	12/13/04		
ND				*	#	B4L0907	12/09/04		EPA 7471A	
Nickel 22 0.79 " " " " " " " " " " " " " " " " " " "					*					
Tadd	•			*	*		*			
Commons ND 1.6	™ ad			*	*	•	*	*	π	
Tablium				•	#	•	*	12/13/04	*	
Description ND 1.5 " " " " " " " " " " " " " "				•	**		*		*	
Taractium				-					*	
T4-2-2 (0412057-04) Soll Sampled: 12/01/04 00:00 Received: 12/02/04 09:10 ver ND 0.80 mg/kg 1 B4L0906 12/09/04 12/09/04 EPA 6010B Arsenic 8.2 1.7 " " " " " " " " " " " " " " " " " " "				**			-	*		
T4-2-2 (0412057-04) Soll Sampled: 12/01/04 00:00 Received: 12/02/04 09:10				**	*			12/13/04		
ND 0.80 mg/kg 1 B4L0906 12/09/04 12/09/04 EPA 6010B				/07/04 NQ+	10					
Section Sect						D41.0007	12/00/04	12/00/04	EDA 6010D	
Selenium 210 3.3										
ND 0.68										
ND 0.51 "		_								
Cobalt									-	
12/09/04 12/09/04									_	
Page 29 2.2 " " " 12/13/04 " 12/13/04 " 12/13/04 " 12/13/04 " 12/13/04 EPA 7471A Molybdenum ND 1.7 " B4L0906 12/09/04 12/09/04 EPA 6010B Ekel 25 0.79 " " " " " " " " " " Antimony ND 1.6 " " " " " " 12/13/04 " Scienium ND 1.9 " " " " 12/13/04 " Scienium ND 1.5 " " " " " " " " " " " " " "					-					
ND 0.16										
Molybdenum ND 1.7 " B4L0906 12/09/04 12/09/04 EPA 6010B Eckel 25 0.79 " " " " " " " " " " " " " " " " " " "										
Checket 25 0.79 " " " " " " " " " " " " " " " " " " "										
Antimony ND 1.6 " " " 12/13/04 " Sclenium ND 1.9 " " 12/09/04 " Allium ND 1.5 " " " " " " " " " " " " " " " " " " "										
Antimony ND 1.6 " " 12/13/04 " 12/enium ND 1.9 " " 12/09/04 " 12/lium ND 1.5 " " " " " " " " " " " " " " " " " " "	-y-								-	
Glenium ND 1.9 " " 12/09/04 " "allium ND 1.5 " " " " " " " " " " " " " " " " " " "									•	
Tallium ND 1.5 " " " " " " " " " " " " " " " " " " "									•	
# nadium 61 0.73 " " " "										
					=	==	-		•	
Zinc 58 1.3 " " " 12/13/04 "										
	Zinc	58	1.3	*	*	*		12/13/04		



Ninyo & Moore - Irvine 475 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2
Project Number: 205372005
Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Tesnic 13 1.7 " " " 1213/04 "	malyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tesnic Friam	A-1-2.5 (0412057-07) Soll	Sampled: 12/01/04 00:00	Received: 1	2/02/04 0	9:10					
Parison Pari	Silver	ND	0.80	mg/kg	1	B4L0906	12/09/04	12/09/04	EPA 6010B	
Beryllium	rsenic	13	1.7	4	•	"	11			
Indition 1,75	S rium	220	3.3	"	**	#	Ħ	*		
13 2.2	Beryllium	ND	0.68		•	**	*	12/13/04		
Capper	Admium	0.75	0.51		**			12/09/04		
Copper 1500 2.2 "	_)balt	13	2.2		•	*	*	12/13/04	*	
Percury 0.22 0.18 " B4L0907 12/09/04 12/10/04 EPA 7471A EPA 610B ND 1.7 " B4L0906 12/09/04 12/09/04 EPA 6010B Noticel 33 0.79 " " " " " " " " "	Chromium	36	0.98		**			12/09/04	-	
Percury 0.22 0.18 " B4L0907 12/09/04 12/10/04 EPA 7471A EPA 7471A EPA 610B EPA 610B	<u>C</u> opper	1500	2.2	*	*			12/13/04		
Nickel 33 0.79 " " " " " " " " " " " " " " " " " " "		0.22	0.18	-		B4L0907	12/09/04	12/10/04	EPA 7471A	
Tank 10	m olybdenum	ND	1.7	*		B4L0906	12/09/04	12/09/04	EPA 6010B	
Stenium ND 1.6 " " " 12/13/04 " 12/13/0	Nickel	33	0.79	*		*		*	•	
Pallium	Tuesd	200	1.3	*		*			•	
Thailium	ıtimony	ND	1.6		*			12/13/04	•	
Tanadium	Selenium	ND	1.9	*	•	"		12/09/04	•	
PI-2-2.5 (0412057-08) Soil Sampled: 12/01/04 00:00 Received: 12/02/04 09:10 Ver ND 0.80 mg/kg 1 B4L0906 12/09/04 12/09/04 EPA 6010B senic 12 1.7 " " " " " " " " " " " " " " " " " " "	Thallium	ND	1.5	*	**	•		**		
PI-2-2.5 (0412057-08) Soil Sampled: 12/01/04 00:00 Received: 12/02/04 09:10 Ver	Tuadium	57	0.73		**			*		
ND 0.80 mg/kg 1 B4L0906 12/09/04 12/09/04 EPA 6010B	a nc	440	1.3	•	#		#	12/13/04	•	
Serium 210 3.3	P1-2-2.5 (0412057-08) Soil	Sampled: 12/01/04 00:00	Received: 1	2/02/04 0	9:10					
Serium 210 3.3	ver	ND	0.80	me/ke	1	B4L0906	12/09/04	12/09/04	EPA 6010B	
ND 0.68	Asenic					•				
ND 0.68	Barium	210	3.3	*	**					
dmlum	ryllium	ND		*		н	**	12/13/04	*	
14 2.2	dmium	0.79	0.51	*		*	*			
The continum	Cobalt			-		**	*		*	
Paper	Chromium	34	0.98	#	n	*	**		w	
ND 0.18 " B4L0907 12/09/04 12/10/04 EPA 7471A	Opper	47	2.2	*	н	*		12/13/04		
Molybdenum ND 1.7 " B4L0906 12/09/04 12/09/04 EPA 6010B	Ercury			*	•	B4L0907	12/09/04		EPA 7471A	
25 0.79	Molybdenum			н	u					
ad 85 1.3 " <td>Mickel</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Mickel									
Antimony ND 1.6 " " 12/13/04 " Gelenium ND 1.9 " " 12/09/04 " Allium ND 1.5 " " " " " " " " " " " " " " " " " " "	ad .			*		*		π.		
Selenium ND 1.9 " " 12/09/04 " allium ND 1.5 " " " " " " " " " " " " " " " " " " "	Antimony					•		12/13/04		
Tallium ND 1.5 " " " " " " " " " " " " " " " " " " "	Selenium					•				
nadium	allium					•				
	nadium			*		•		**		
	Zinc			*				12/13/04		



Ninyo & Moore - Irvine 475 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Reporting

_		Reporting							
Moalyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
71-3-2 (0412057-09) Soll	Sampled: 12/01/04 00:00	Received: 12/	02/04 09:1	10	ent to				
``lver	ND	0.80	mg/kg	1	B4L0906	12/09/04	12/09/04	EPA 6010B	
rsenic	15	1.7	*	*	*	•		*	
A rium	210	3.3	•	•		•	*	*	
Beryllium	ND	0.68	•	"			12/13/04	•	
dmium	ND	0.51	*	*	а	•	12/09/04	•	
balt	14	2.2	*	•	*	•	12/13/04	*	
Chromium	34	0.98	•	•	11	*	12/09/04	**	
Copper	33	2.2	**	*	*	*	12/13/04	*	
ercury	0.27	0.18	*	•	B4L0907	12/09/04	12/10/04	EPA 7471A	
Molybdenum	ND	1.7		•	B4L0906	12/09/04	12/09/04	EPA 6010B	
Nickel	26	0.79	**		*	*		*	
Tread	61	1.3					•	#	
ttimony	ND	1.6			*		12/13/04		
Selenium	ND	1.9			**		12/09/04	•	
Thallium	ND	1.5	*						
madium	60	0.73	*	*	*			**	
an c	88	1.3	•	*	•		12/13/04	•	
P1-4-1.5 (0412057-10) Soil	Sampled: 12/01/04 00:0	0 Received: 1	2/02/04 09):10					
ver	ND	0.80	mg/kg	1	B4L0906	12/09/04	12/09/04	EPA 6010B	
Arsenic	13	1.7	*	,	•		-		
Barium	220	3.3		7	•	,		•	
ryllium .	ND	0.68	#	*	#		12/13/04	**	
dmium	ND	0.51	#	*	•		12/09/04	•	
Cobalt	13	2.2	#	#	**	**	12/13/04		
Chromium	32	0.98	*	#	#		12/09/04	*	
pper	31	2.2	#				12/13/04		
Mercury	ND	0.18	*		B4L0907	12/09/04	12/10/04	EPA 7471A	
Molybdenum	ND	1.7		-	B4L0906	12/09/04	12/09/04	EPA 6010B	
Mickel	24	0.79	#		*	0	•	•	
ad	74	1.3	**	#			•		
Antimony	ND	1.6	#	#	*	**	12/13/04	n	
Selenium	ND	1.9			•	**	12/09/04		
Mallium	ND	1.5				**			
nadium	54	0.73	#	**	н	*		*	
Zinc	130	1.3	"			**	12/13/04		
	200	1.0							



Ninyo & Moore - Irvine 475 Goddard Suite 200

Irvine CA, 92618

Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

_			•						
nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
71-5-1.5 (0412057-11) Soil	Sampled: 12/01/04 00:00	Received: 1	2/02/04 0	9:10					
Silver	ND	0.80	mg/kg	1	B4L0906	12/09/04	12/09/04	EPA 6010B	
rsenic	25	1.7	•	•	•			•	
M arium	260	3.3	*	**		*			
Beryllium	ND	0.68		*		Ħ	12/13/04	*	
admium	0.68	0.51	•	*		•	12/09/04	•	
يوbalt	14	2.2	•		**	*	12/13/04	•	
Chromium	39	0.98	**	•			12/09/04	•	
Copper	42	2.2		*	•		12/13/04		
ercury	ND	0.18		*	B4L0907	12/09/04	12/10/04	EPA 7471A	
wolybdenum	ND	1.7	•		B4L0906	12/09/04	12/09/04	EPA 6010B	
Nickel	28	0.79	•	•		"			
ead	230	1.3	**	•		**	*	#	
ıtimony	ND	1.6	**	*		"	12/13/04	-	
Selenium	ND	1.9	**			**	12/09/04		
Thallium	ND	1.5		*	*			*	
nadium	57	0.73			-				
anc .	310	1.3	•	•	•		12/13/04	•	
P1-6-1.5 (0412057-12) Seil	Sampled: 12/01/04 00:00	Received: 12	2/02/04 0	9:10					
ver	ND.	0.80	mg/kg	1	B4L0906	12/09/04	12/09/04	EPA 6010B	
Senic	14	1.7	*						
Barium	230	3.3	**				"	*	
Mryllium	ND	0.68		**	*		12/13/04		
dmium	ND	0.51		-	*	**	12/09/04	**	
Cobalt	10	2.2		**	#		12/13/04	*	
Chromium	27	0.98	*			"	12/09/04		
pper	32	2.2	*	*		•	12/13/04	*	
rcury	ND	0.18	*		B4L0907	12/09/04	12/10/04	EPA 7471A	
Molybdenum	ND	1.7	**		B4L0906	12/09/04	12/09/04	EPA 6010B	
ickel	24	0.79			*		•		
ad	120	1.3			*				
Antimony	ND	1.6				*	12/13/04		
Selenium	ND	1.9	*	π		*	12/09/04		
Mallium	ND	1.5	**		"	#	"		
		0.73	**			**	"	tt	
M nadium	42	U. / 3		-					
inadium Zinc	42 190	1.3	**		**		12/13/04		



Ninyo & Moore - Irvine

75 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts Reported: 12/14/04 16:14

Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID

Sierra Analytical Labs, Inc.

alyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
14-1-2 (0412057-01) Soil Sampled: 12						Тюршос			
Sesoline Range Hydrocarbons	ND	0.050	mg/kg	1	B4L0505	12/05/04	12/05/04	EPA 8015B	
4-C12) Surrogate: a,a,a-Trifluorotoluene		118%	35-13	0					
54-2-2 (0412057-04) Soil Sampled: 12	/ 01/04 00:00	Received: 12/	02/04 09:10						
soline Range Hydrocarbons (C4-C12)	ND	0.045	mg/kg	1	B4L0505	12/05/04	12/05/04	EPA 8015B	
errogate: a,a,a-Trifluorotoluene		119%	35-13	0	*	"	•		
-1-2.5 (0412057-07) Soil Sampled: 1	2/01/04 00:00	Received: 12	2/02/04 09:1	0					
Gasoline Range Hydrocarbons	ND	0.088	mg/kg	1	B4L0505	12/05/04	12/05/04	EPA 8015B	
rrogate: a,a,a-Trifluorotoluene		115%	35-13	0	•	*	-		
P1-2-2.5 (0412057-08) Soil Sampled: 1	2/01/04 00:00	Received: 12	2/02/04 09:1	0					
soline Range Hydrocarbons	ND	0.076	mg/kg	1	B4L0505	12/05/04	12/05/04	EPA 8015B	
#4-C12)			0 0						
C4-C12)		119%	35-130	9	,,		,		
C4-C12) Surrogate: a,a,a-Trifluorotoluene	/01/04 00:0 0]		35-130	9	"		,		
	/01/04 00:00 I		35-130	1	B4L0505	12/05/04	12/05/04	EPA 8015B	
C4-C12) ourrogate: a,a,a-Trifluorotoluene -3-2 (0412057-09) Soil Sampled: 12 Dasoline Range Hydrocarbons C4-C12)		Received: 12/	35-130 02/04 09:10	1	B4L0505				
O4-C12) Surrogate: a,a,a-Trifluorotoluene	ND	0.060	35-130 02/04 09:10 mg/kg	1		12/05/04	12/05/04	EPA 8015B	
O4-C12) Surrogate: a,a,a-Trifluorotoluene -3-2 (0412057-09) Soil Sampled: 12 Gasoline Range Hydrocarbons C4-C12) rrogate: a,a,a-Trifluorotoluene P1-4-1.5 (0412057-10) Soil Sampled: 1	ND	0.060	35-130 02/04 09:10 mg/kg	1		12/05/04	12/05/04	EPA 8015B	
O4-C12) Surrogate: a,a,a-Trifluorotoluene -3-2 (0412057-09) Soil Sampled: 12 Dasoline Range Hydrocarbons C4-C12) rrogate: a,a,a-Trifluorotoluene	ND 12/01/04 00:00	0.060 119 % Received: 12	35-130 02/04 09:10 mg/kg 35-130 2/02/04 09:1	1 0 0	*	12/05/04	12/05/04	EPA 8015B	
C4-C12) Surrogate: a,a,a-Trifluorotoluene -3-2 (0412057-09) Soil Sampled: 12 Sasoline Range Hydrocarbons C4-C12) rrogate: a,a,a-Trifluorotoluene P1-4-1.5 (0412057-10) Soil Sampled: 1 soline Range Hydrocarbons -1-C12) surrogate: a,a,a-Trifluorotoluene	ND 12/01/04 00:00 ND	0.060 119 % Received: 12 0.068	35-130 02/04 09:10 mg/kg 35-130 2/02/04 09:1 mg/kg	1 0 0	*	12/05/04	12/05/04	EPA 8015B	
O4-C12) Surrogate: a,a,a-Trifluorotoluene -3-2 (0412057-09) Soil Sampled: 12 Gasoline Range Hydrocarbons C4-C12) rrogate: a,a,a-Trifluorotoluene P1-4-1.5 (0412057-10) Soil Sampled: 1 soline Range Hydrocarbons -1-C12)	ND 12/01/04 00:00 ND	0.060 119 % Received: 12 0.068	35-130 02/04 09:10 mg/kg 35-130 2/02/04 09:1 mg/kg	1 0 0	*	12/05/04	12/05/04	EPA 8015B	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ninyo & Moore - Irvine 475 Goddard Suite 200

Irvine CA, 92618

Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID

Sierra Analytical Labs, Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P1-6-1.5 (0412057-12) Soil Sa	ampled: 12/01/04 00:00	Received: 12	2/02/04 09:	10					
Gasoline Range Hydrocarbons '4-C12)	ND	0.066	mg/kg	1	B4L0505	12/05/04	12/05/04	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluen	ie	116%	35-13	30		•	"	"	



Irvine CA, 92618

Ninyo & Moore - Irvine
475 Goddard Suite 200

Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

salyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
74-1-2 (0412057-01) Soll	Sampled: 12/01/04 00:00	Received: 12/	02/04 09:1	0					
MC < C8	ND	1.0	mg/kg	1	B4L0908	12/06/04	12/09/04	EPA 8015B	
<= HC < C9	ND	1.0	*	•		*		•	
⇔ <= HC < C10	ND	1.0	•		ч	•	•		
C10 <= HC < C11	ND	1.0	*		н	**	•	•	
™ 1 <= HC < C12	ND	1.0	*	•	*	*	•		
2 <= HC < C14	ND	1.0		•	н	•	•		
C14 <= HC < C16	ND	1.0	•	•	•	**	•	•	
C16 <= HC < C18	ND	1.0	"	*	*	**	•	*	
	1.6	1.0		*	7	*	*	•	
**:0 <= HC < C24	18	1.0		•	#		-		
C24 <= HC < C28	31	1.0			•	*	*		
##8 <= HC < C32	24	1.0		*	*	*	•	•	
l_C>=C32	ND	1.0		•	•	•	•	•	
Total Petroleum Hydrocar	bons 74	5.0	•	*	*	•	*	•	
(C7-C36)									
rrogate: o-Terphenyl		131 %	50-1	50	"	*		•	
14-2-2 (0412057-04) Soil	Sampled: 12/01/04 00:00	Received: 12/	02/04 09:1	0					
₩C < C8	ND	1.0	mg/kg	1	B4L0908	12/06/04	12/09/04	EPA 8015B	
<= HC < C9	ND	1.0	-	*		•		н	
₹ <= HC < C10	ND	1.0	*	**		*		•	
C10 <= HC < C11	ND	1.0		*		*	*	•	
₹ 1 <= HC < C12	ND	1.0	**	*	*	•	•	•	
2 <= HC < C14	ND	1.0			я		*	•	
C14 <= HC < C16	ND	1.0	**	•	*			-	
C16 <= HC < C18	. ND	1.0	•	•		**	•	•	
€ 8 <= HC < C20	ND	1.0	*	•	•				
€2 0 <= HC < C24	4.0	1.0	**	•	•		•	•	
C24 <= HC < C28	6.6	1.0	**	•	•		•	•	
₹ 8 <= HC < C32	3.2	1.0	*	•	•	*	•		
1 >= C32	ND	1.0	*	•	*		"		
Total Petroleum Hydrocari (<u>C</u> 7-C36)	bons 14	5.0	"	•	•	•	•	•	
rrogate: o-Terphenyl		107 %	50-1	50	"		"	*	



Ninyo & Moore - Irvine 475 Goddard Suite 200

Irvine CA, 92618

Project Number: 205372005 Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Project: Bloomfield 2

Sierra Analytical Labs, Inc.

		Diction 211							
alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
71-1-2.5 (0412057-07) Soll 1	Sampled: 12/01/04 00:00	Received: 1	2/02/04 0	9:10					
HC < C8	ND	5.0	mg/kg	5	B4L0908	12/06/04	12/09/04	EPA 8015B	
<= HC < C9	ND	5.0	*	•	4	₩			
← HC < C10	ND	5.0	**	**		#			
C10 <= HC < C11	ND	5.0	"	N	*				
1 <= HC < C12	ND	5.0	•			*	**	*	
2 <= HC < C14	ND	5.0		**		•	*		
<u>C</u> 14 <= HC < C16	ND	5.0	•	*	•	•		•	
C16 <= HC < C18	ND	5.0				*	*	*	
(8 <= HC < C20	ND	5.0		*		*	*		
(Bu) <= HC < C24	220	5.0	π-	**		#	**	*	
C24 <= HC < C28	420	5.0	**	*	**	•		*	
G#8 <= HC < C32	480	5.0	*		=	*	*		
I: :>= C32	ND	5.0			**	*	н	•	
Total Petroleum Hydrocarbo (C7-C36)	ns 1100	25	**	•	"	•		•	
rogate: o-Terphenyl		%	50-	150	•		"	*	S-0.
PT-2-2.5 (0412057-08) Soil 8	Sampled: 12/01/04 00:00	Received: 1	2/02/04 05	9:10					
HG < C8	ND	1.0	mg/kg	i	B4L0908	12/06/04	12/09/04	EPA 8015B	
(<u>₹</u> <= HC < C9	ND	1.0	*	н		*	•	*	
C9<= HC < C10	ND	1.0			*	*			
C10 <= HC < C11	ND	1.0	**	w			**	*	
(∰ <= HC < C12	ND	1.0				*	•	n	
(<u>**</u> 2 <= HC < C14	ND	1.0		•			**	*	
C14 <= HC < C16	ND	1.0					*	*	
C16 <= HC < C18	ND	1.0			*		-	#	
G 8 <= HC < C20	4.5	1.0	**		"	π		*	
(♣) <= HC < C24	54	1.0	*	*	**	*	4	**	
C24 <= HC < C28	140	1.0				π.	π	*	
(№8 <= HC < C32	160	1.0	**	**			•	*	
F >= C32	1.6	1.0	•		**		•	•	
Total Petroleum Hydrocarbo (C7-C36)	ns 360	5.0	n		n	п	•	*	
S rogate: o-Terphenyl		133 %	50-	150	~	"	н	т	



Ninyo & Moore - Irvine 475 Goddard Suite 200 Irvine CA, 92618

Project: Bloomfield 2 Project Number: 205372005

Reported: 12/14/04 16:14

Project Manager: Paul Roberts Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P1-3-2 (0412057-09) Soil	Sampled: 12/01/04 00:00	Received: 12/	02/04 09:	:10					
HC < C8	ND	1.0	mg/kg	1	B4L0908	12/06/04	12/09/04	EPA 8015B	
8 <= HC < C9	ND	1.0	*	**	*	*	*	*	
♥9 <= HC < C10	ND	1.0	•	•	**		•		
C10 <= HC < C11	ND	1.0	*		*		*	•	
↑ 1 <= HC < C12	ND	1.0	*		*	**	•		
12 <= HC < C14	ND	1.0	*		*	*	•		
C14 <= HC < C16	ND	1.0	-		*	*	•	•	
C16 <= HC < C18	ND	1.0			•				
18 <= HC < C20	7.2	1.0		*	•	-		•	
4820 <= HC < C24	54	1.0	•		•	**	•		
C24 <= HC < C28	110	1.0	*		*	•	-		
≈28 <= HC < C32	110	1.0	*		•	•	•		
C >= C32	8.0	1.0			*	*			
Total Petroleum Hydroca (C7-C36)	rbons 290	5.0	"	•	*	*	•	•	
rrogate: o-Terphenyl		92.0 %	50-	-150	"	"	*	-	
P1-4-1.5 (0412057-10) Soi	Sampled: 12/01/04 00:0	0 Received: 1	2/02/04 0	9:10					
₩C < C8	ND	1.0	mg/kg	1	B4L0908	12/06/04	12/09/04	EPA 8015B	
<= HC < C9	ND	1.0		*			•	•	
C9 <= HC < C10	ND	1.0		**	**		**	•	
C10 <= HC < C11	ND	1.0			**	-	*	•	
1 <= HC < C12	ND	1.0	•	*	"	•		•	
2 <= HC < C14	ND	1.0	*	*	*	*	-		
C14 <= HC < C16	ND	1.0	*	•			*		
C16 <= HC < C18	ND	1.0	•	**	•	*			
.8 <= HC < C20	8.5	1.0	**	**			*		
€20 <= HC < C24	50	1.0	*		•	•	*		
C24 <= HC < C28	170	1.0	•	•	**	*	*	-	
₹8 <= HC < C32	140	1.0	•	*	•	•		•	
	10	1.0	*		*	*	**	*	
Total Petroleum Hydroca (C7-C36)		5.0	*		•		•	•	
rrogate: o-Terphenyl		88.0 %	50	-150	*	*	,	*	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Irvine CA, 92618

Ninyo & Moore - Irvine 75 Goddard Suite 200 Project: Bloomfield 2
Project Number: 205372005
Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analy	tical Labs,	Inc.
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-		Dictia Ai	many cica	i Liaba, i	ш				
nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
PI-5-1.5 (0412057-11) Soil	Sampled: 12/01/04 00:00	Received: 1	2/02/04 0	9:10					
NAC < C8	ND	1.0	mg/kg	1	B4L0908	12/06/04	12/09/04	EPA 8015B	
<= HC < C9	ND	1.0		11	•		*	*	
C <= HC < C10	ND	1.0		**		•	*	#	
C10 <= HC < C11	ND	1.0	*		•	•	•	**	
1 <= HC < C12	ND	1.0	"		-			**	
2 <= HC < C14	ND	1.0		**	*	•	•	•	
C14 <= HC < C16	ND	1.0			•	*	*	•	
C16 <= HC < C18	ND	1.0		*		*	*	*	
€ 8 <= HC < C20	14	1.0	"	•		*	•	*	
€20 <= HC < C24	35	1.0	*	•	•	*	•		
C24 <= HC < C28	160	1.0	-	-		•		π	
(PM8 <= HC < C32	140	1.0	**		•	•			
l>= C32	2.9	1.0	•		•	•	•	*	
Total Petroleum Hydrocarb	ons 360	5.0	**	-		•			
(<u>C</u> 7-C36)									
Togate: o-Terphenyl	TAMES IN COLUMN TO SERVICE AND ADDRESS OF THE PARTY OF TH	90.7 %	50-	150	*	*	*	#	Manager of the Post of the Control o
P1-6-1.5 (0412057-12) Soil	Sampled: 12/01/04 00:00	Received: 1	2/02/04 0	9:10					
HME < C8	ND	1.0	mg/kg	1	B4L0908	12/06/04	12/09/04	EPA 8015B	
(← HC < C9	ND	1.0	m					N	
C9 <= HC < C10	ND	1.0	*		-			=	
C10 <= HC < C11	ND	1.0	•				*	-	
(HC < C12	ND	1.0							
(#2 <= HC < C14	ND	1.0						-	
C14 <= HC < C16	ND	1.0	•		Ħ				
G16 <= HC < C18	ND	1.0	*		*			*	
(B <= HC < C20	5.7	1.0	•		*				
C20 <= HC < C24	91	1.0	•			*		н	
C24 <= HC < C28	160	1.0	*	*	*	*			
(= HC < C32	190	1.0	*		*	*	*		
In C >= C32	7.6	1.0	**	**	*	*			
Total Petroleum Hydrocarb		5.0		*	#		*		
(⊆ 7-C36)	450	2.0							
S rogate: o-Terphenyl		101 %	50-	150	,,		*	*	



Ninyo & Moore - Irvine

475 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
T4-1-2 (0412057-01) Soil S	ampled: 12/01/04 00: 0 0	Received: 12/	02/04 09:	10					
enzene	ND	5.0	μg/kg	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
romobenzene	ND	5.0	**	#	•	*	*	•	
Bromochloromethane	ND	5.0				**		п	
Bromodichloromethane	ND	5.0	*		*	н	**	H	
romoform	ND	5.0	**	•	"	н	*	*	
romomethane	ND	5.0		•	•		-	*	
n-Butylbenzene	ND	5.0			-	-	•	•	
gc-Butylbenzene	ND	5.0			*	*	*	•	
rt-Butylbenzene	ND	5.0		•	•	r	-		
Carbon tetrachloride	ND	5.0	*	*		*	*	•	
Chlorobenzene	ND	5.0	*	*	"	*	•		
nioroethane	ND	5.0	**	*		**	•	•	
aloroform	ND	5.0	*	*	*	*	*		
Chloromethane	ND	5.0	-			#	H	•	
2-Chiorotoluene	ND	5.0	#	*		*		•	
Chiorotoluene	ND	5.0	•		**		*	**	
bromochloromethane	ND	5.0	*	*	**	#	*	*	
,2-Dibromo-3-chloropropane	ND :	5.0	*			*		er .	
2-Dibromoethane (EDB)	ND	5.0	**	•		n			
bromomethane	ND	5.0	**	•	**	п			
,2-Dichlorobenzene	ND	5.0	#	*	"	e		"	
,3-Dichlorobenzene	ND	5.0			•	•		*	
4-Dichlorobenzene	ND	5.0	**		•				
chlorodifluoromethane	ND	5.0	•						
1,1-Dichloroethane	ND	5.0	**				•		
2-Dichloroethane	ND	5.0	**				#	**	
i-Dichloroethene	ND	5.0		*	*			*	
s-1,2-Dichloroethene	ND	5.0			*	Ħ		**	
rans-1,2-Dichloroethene	ND	5.0	**	*	-	•		*	
2-Dichloropropane	ND	5.0	**					*	
B-Dichloropropane	ND	5.0	**		**	*		*	
2,2-Dichloropropane	ND	5.0				*	*		
1-Dichloropropene	ND	5.0	*	*	-	*		•	
3-1,3-Dichloropropene	ND	5.0	*			**	**	•	
ns-1,3-Dichloropropene	ND	5.0			•	"	н	**	
thylbenzene	ND	5.0		*		*			
xachlorobutadiene	ND	5.0	**	*	•	Ħ	*		
ppropylbenzene	ND	5.0	*		*	*	#	*	
-Isopropyltoluene	ND	5.0	π-			п	*	"	
Methylene chloride	ND	5.0	**						
ethyl tert-butyl ether	ND	5.0	*	•		"		*	
<u> </u>	112	5.0							



Ninyo & Moore - Irvine 475 Goddard Suite 200

Irvine CA, 92618

Project: Bloomfield 2
Project Number: 205372005

Reported: 12/14/04 16:14

Project Manager: Paul Roberts

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
T4-1-2 (0412057-01) Soil S	ampled: 12/01/04 00:00	Received: 12/	02/04 09:	10					
Maphthalene	ND	5.0	µg/kg	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
Propylbenzene	ND	5.0	•	*		•	-	•	
Styrene	ND	5.0	•	•	*	*	•	•	
1,1,1,2-Tetrachloroethane	ND	5.0	*		**	•	•	•	
1,2,2-Tetrachloroethane	ND	5.0	-	*	*			•	
trachloroethene	ND	5.0		**	**	*		*	
Folu e ne	ND	5.0	•	*	*	*		*	
1.2,3-Trichlorobenzene	ND	5.0	•	*	**	"	•	**	
2,4-Trichlorobenzene	ND	5.0		*	-	"	*		
,1-Trichloroethane	ND	5.0	•	•	TN	*	•		
1,1,2-Trichloroethane	ND	5.0	•	w	*	*			
hichloroethene	ND	5.0		•	•	*	•	*	
ichlorofluoromethane	ND	5.0	•	•		•	•	*	
,2,3-Trichloropropane	ND	5.0			•	*	•		
,2,4-Trimethylbenzene	ND	5.0					-		
3,5-Trimethylbenzene	ND	5.0			•	•	-	•	
mnyl chloride	ND	5.0				•			
n,p-Xylene	ND	5.0		*	*		*		
Xylene	ND	5.0	*	•			•	*	
rrogate: Dibromofluoromet	hane	112%	80-	120	"		*	,	
Surrogate: Toluene-d8		100 %	81-	117	"	*	"	,,	
Surrogate: 4-Bromofluoroben	zene	101 %	74-	121	#	"	"		
-2-2 (0412057-04) Soil S	ampled: 12/01/04 00:00	Received: 12/	02/04 09:	10					
Benzene	ND	5.0	μ g/k g	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
Comobenzene	ND	5.0	"	•					
omochloromethane	ND	5.0	•	-	-	•			
romodichloromethane	ND	5.0	-	*	-			•	
Bromoform	ND	5.0	*	*	-			•	
momethane	ND	5.0	*	n	*		-	•	
Butylbenzene	ND	5.0		•	*		•		
ec-Butylbenzene	ND	5.0	*	**			*		
est-Butylbenzene	ND	5.0	"	**	•		*		
rbon tetrachloride	ND	5.0					•		
dlorobenzene	ND ND	5.0	*	•	*	*	•	*	
Chloroethane	ND	5.0			•	*	**	*	
loroform	ND	5.0				•			
loromethane	ND	5.0							
2-Chiorotoluene	ND ND	5.0							
-Chlorotoluene	ND ND	5.0							
promochloromethane	ND ND	5.0		-					
ille.	112	310							



"Ninyo & Moore - Irvine 175 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2
Project Number: 205372005

Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

		Reporting							
nalyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
74-2-2 (0412057-04) Soil	Sampled: 12/01/04 00:00	Received: 12/	10						
2-Dibromo-3-chloropropa		5.0	μg/kg	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
?-Dibromoethane (EDB)	ND	5.0	•	Ħ	•	•	•	**	
Noromomethane	ND	5.0	•				*	47	
,2-Dichlorobenzene	ND	5.0		•	*			**	
""}-Dichlorobenzene	ND	5.0	•			#	*		
	ND	5.0	*	*	•	*	*	*	
Dichlorodifluoromethane	ND	5.0	*	•				*	
_i-Dichloroethane	ND	5.0		•			•	*	
!-Dichloroethane	ND	5.0	*		*	*	-	*	
-Dichloroethene	ND	5.0	*		*	•	*		
is-1,2-Dichloroethene	ND	5.0	-		*	*	*		
ns-1,2-Dichloroethene	ND	5.0	•	*		•	**		
:-Dichloropropane	ND	5.0		•	•				
,3-Dichloropropane	ND	5.0	"		•		*	*	
2-Dichloropropane	ND	5.0	•	•	•	*		-	
-Dichloropropene	ND	5.0	*		•	*		-	
-1,3-Dichloropropene	ND	5.0	•		*	*		•	
rans-1,3-Dichloropropene	ND	5.0	**	**		*	*	•	
hylbenzene	ND	5.0		•		•	*	"	
xachlorobutadiene	ND	5.0	**			*		*	
sopropylbenzene	ND	5.0		•	"			-	
-Isopropyltoluene	ND	5.0			*				
thylene chloride	ND	5.0				,,		*	
thyl tert-butyl ether	ND	5.0			*		-	*	
laphthalene	ND	5.0	-		•			**	
Propylbenzene	ND	5.0					-	-	
rene	ND	5.0							
,1,2-Tetrachloroethane	ND	5.0		*					
,1,2,2-Tetrachloroethane	ND	5.0		*			*		
mrachloroethene	ND	5.0				4	"		
≟uene	ND	5.0		**					
2,3-Trichlorobenzene	ND	5.0		**		*			
2,4-Trichlorobenzene	ND	5.0	н	"	*		**	•	
1-Trichloroethane	ND	5.0	**						
2-Trichloroethane	ND ND	5.0			•				
richloroethene	ND ND	5.0	*			*	*	-	
inchlorofluoromethane	ND	5.0		•					
3-Trichloropropane	ND	5.0							
,2,4-Trimethylbenzene	ND ND	5.0							
,3,5-Trimethylbenzene	ND ND	5.0			u				
yl chloride	ND ND	5.0		_				_	



Ninyo & Moore - Irvine

475 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts Reported: 12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

_		Reporting					ad Markad	Note	
alyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
14-2-2 (0412057-04) Soli	Sampled: 12/01/04 00:00	Received: 12/	02/04 09:	:10					
m-p-Xylene	ND	5,0	μ g/k g	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
Xylene	ND	5.0	*	•	•	•	•		
Surrogate: Dibromofluoroi	nethane	114%	80-	120	,	~	"	н	
Surrogate: Toluene-d8		101 %	81-	117		~	~	-	
rrogate: 4-Bromofluorol	benzene	101 %	74-	121	•	-	-	"	
P1-1-2.5 (0412057-07) Soi	l Sampled: 12/01/04 00:0	Received: 1	2/02/04 0	9:10					
Renzene	ND	5.0	μg/kg	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
omobenzene	ND	5.0	"		н .	#	•	n	
Fromochloromethane	ND	5.0	**			*			
Bromodichloromethane	ND	5.0	"	-	•			•	
.—omoform	ND	5.0	*	=		•	•		
omomethane	ND	5.0	-	•	•	-	*		
n-Butylbenzene	ND	5.0	•	•	*	*	•	•	
sec-Butylbenzene	ND	5.0	•	•	#	•		•	
t-Butylbenzene	ND	5.0	•		•	•	•	-	
rbon tetrachloride	ND	5.0	•		•	•			
Chlorobenzene	ND	5.0	•	**	*	•			
M loroethane	ND	5.0	*		*	•		•	
loroform	ND	5.0		*	•	•	•	**	
Chloromethane	ND	5.0		*	"	**			
2-Chlorotoluene	ND	5.0	**	•	"		"		
hlorotoluene	ND	5.0	*	•	*	•	*		
bromochloromethane	ND	5.0	"	*	"	•	*	*	
1,2-Dibromo-3-chloroprop	ane ND	5.0	*	•		•	*	•	
la-Dibromoethane (EDB)	ND	5.0	-	•	*	•	"	•	
1_promomethane	ND	5.0	•	•			•		
1,2-Dichlorobenzene	ND	5.0		"	•	-	•	•	
1,3-Dichlorobenzene	ND	5.0	•			•	•		
-Dichlorobenzene	ND	5.0	•	•		*	-	-	
hlorodifluoromethane	ND	5.0	**		-	•	*	-	
1,1-Dichloroethane	ND	5.0	"	**	•	**	*	•	
12-Dichloroethane	ND	5.0	*	*	**	**	*	*	
1 -Dichloroethene	ND	5.0	•				*		
d 1,2-Dichloroethene	ND	5.0		*	•	•	"	•	
trans-1,2-Dichloroethene	ND	5.0	*	•	*		•		
-Dichloropropane	ND	5.0			*	•	•	*	
Dichloropropane	ND	5.0		•	•	*		•	
2,2-Dichloropropane	ND	5.0	•	•	•	•	•		
1_1-Dichloropropene	ND	5.0	•	•	•	•			
c 1,3-Dichloropropene	ND	5.0	•			•			



Ninyo & Moore - Irvine 475 Goddard Suite 200

Irvine CA, 92618

Project Number: 205372005

Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B

Project: Bloomfield 2

Sierra Analytical Labs, Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
11/4	Sampled: 12/01/04 00:00		2/02/04 0						
mns-1,3-Dichloropropene	ND	5.0	μ g/k g	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
hylbenzene	ND	5.0		*	es	-		•	
Mexachlorobutadiene	ND	5.0	*			r	•		
Isopropylbenzene	ND	5.0	•	**			•	•	
sopropyltoluene	ND	5.0	•			•	*		
ethylene chloride	ND	5.0	•	•		"	-	•	
Methyl tert-butyl ether	ND	5.0		*	•				
Naphthalene	ND	5.0	*	*	*	*		*	
Propylbenzene	ND	5.0	**			11	*	•	
Ш утеле	ND	5.0	**			**	"	•	
1,1,1,2-Tetrachloroethane	ND	5.0	**				*	•	
12,2,2-Tetrachloroethane	ND	5.0	•	•	*			•	
_trachloroethene	ND	5.0	-		•	•	•		
Toluene	ND	5.0	•	•	•	-	•	-	
1,2,3-Trichlorobenzene	ND	5.0	•		•	*	•	•	
4-Trichlorobenzene	ND	5.0	-	•	*	-		•	
,1-Trichloroethane	ND	5.0		•	*	•	*		
1,1,2-Trichloroethane	ND	5.0			*	H	•		
Trichloroethene	ND	5.0	-	*	"		-	*	
ichlorofluoromethane	ND	5.0		*	*	"	"		
7,2,3-Trichloropropane	ND	5.0	-	*	•	**			
1,2,4-Trimethylbenzene	ND	5.0	-	*	•	**		*	
5-Trimethylbenzene	ND	5.0	*	•	**	**	•		
myl chloride	ND	5.0	**	*	*	*	•		
m,p-Xylene	ND	5.0	•	*	•				
q-Xylene	ND	5.0	-		*	•	"		
rrogate: Dibromofluoromet	thane	114%	80-	-120	*	"	"	•	
Surrogate: Toluene-d8		101 %	81-	-117		*	"	"	
Surrogate: 4-Bromofluoroben	zene	102 %	74-	-121	*	*	~	-	



inyo & Moore - Irvine

75 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts Reported: 12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

L		Reporting							
alyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P1-2-2.5 (0412057-08) Soll	Sampled: 12/01/04 00:00	Received: 1	2/02/04 0	9:10					
Penzene	ND	5.0	μg/kg	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
omobenzene	ND	5.0		•	*	•		•	
Bromochloromethane	ND	5.0	*	-	•		-		
Bromodichloromethane	ND	5.0	•	•	#	*	•		
*** omoform	ND	5.0	•		•	*	•	*	
omomethane	ND	5.0	•	•	"		•		
n-Butylbenzene	ND	5.0		H					
sec-Butylbenzene	ND	5.0	*	•			•	•	
t-Butylbenzene	ND	5.0	*	**	"	**	•	•	
bon tetrachloride	ND	5.0	*	*	**	7	•	*	
Chlorobenzene	ND	5.0	"		•	#	*	*	
M loroethane	ND	5.0	•	"		•	•	•	
Coroform	ND	5.0			•		•	*	
Chloromethane	ND	5.0		•	•			•	
2-Chlorotoluene	ND	5.0	•	•		•	•	-	
hlorotoluene	ND	5.0	*	•	•		*		
promochloromethane	ND	5.0	*	•	*	-	-		
1,2-Dibromo-3-chloropropane	ND	5.0	*		*	**	•	-	
2-Dibromoethane (EDB)	ND	5.0	•			*		•	
Foromomethane	ND	5.0			*	•	**	•	
1.2-Dichlorobenzene	ND	5.0			•	"		*	
1,3-Dichlorobenzene	ND	5.0		"	•	"		•	
-Dichlorobenzene	ND	5.0	*	*	**	"		-	
hlorodifluoromethane	ND	5.0					*		
1,1-Dichloroethane	ND	5.0	**	**	•				
1.2-Dichloroethane	ND	5.0		•		**		•	
1 Dichloroethene	ND	5.0	*			*	•		
1,2-Dichloroethene	ND	5.0	-		*	-	•	•	
trans-1,2-Dichloroethene	ND	5.0	•		•	*	*		
Dichloropropane	ND	5.0			*	-		*	
Dichloropropane	ND	5.0	•	*		**		*	
2,2-Dichloropropane	ND	5,0	•		•		*		
1,1-Dichieropropene	ND	5.0	"		*	*			
c 1,3-Dichloropropene	ND	5.0	•		*	"		π	
s-1,3-Dichloropropene	ND	5.0			n	"		₩	
Ethylbenzene	ND	5.0			•		*		
Harachlorobutadiene	ND	5.0		*		"	•		
Lapropylbenzene	ND	5.0	**	*		*	•		
p-isopropyltoluene	ND	5.0		*		-			
Methylene chloride	ND	5.0				-			
hyl tert-butyl ether	ND	5.0	*		*				
	ND	2.0							



Ninyo & Moore - Irvine

475 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2

Project Number: 205372005
Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
P1-2-2.5 (0412057-08) Soil Sampled: 12/01/04 00:00 Received: 12/02/04 09:10									
Maphthalene	ND	5.0	μg/kg	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
Propylbenzene	ND	5.0	•	•	•		•	•	
Styrene	ND	5.0	•	•	•	-	•		
1,1,1,2-Tetrachloroethane	ND	5.0	*	•	*	•	•	•	
1,2,2-Tetrachloroethane	ND	5.0		*	**		•		
trachloroethene	ND	5.0	**		*		•	•	
Toluene	ND	5.0			*	•	•		
1.2,3-Trichlorobenzene	ND	5.0		*		*	*		
2,4-Trichlorobenzene	ND	5.0	*		•	**	•		
1.1-Trichloroethane	ND	5.0	•	•	**	"	•	*	
1,1,2-Trichloroethane	ND	5.0	•	*	•	•		*	
#ichloroethene	ND	5.0	*	-	*	•			
ichlorofluoromethane	ND	5.0	*	-		•	•		
1,2,3-Trichloropropane	ND	5.0			•	•	•	*	
1,2,4-Trimethylbenzene	ND	5.0						•	
3,5-Trimethylbenzene	ND	5.0			=	*			
mnyl chloride	ND	5.0		*	-				
m,p-Xylene	ND	5.0						*	
Xylene	ND	5.0		•	-	•	*	-	
rrogate: Dibromofluoron	sethane	116%	80-	120	w	"		*	
Surrogate: Toluene-d8		101 %	81-	117	"	•	"	•	
Surrogate: 4-Bromofluorob	enzene	106%	74-	121	~	"	*	"	
-3-2 (0412057-09) Soil	Sampled: 12/01/04 00:00	Received: 12/	02/04 09:	10					
Benzene	ND	5.0	μg/kg	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
Reomobenzene	ND	5.0	*						
omochioromethane	ND	5.0							
promodichloromethane	ND	5.0							
Bromoform	ND	5.0	,				-		
momomethane	ND	5.0		*					
Butylbenzene	ND	5.0		*		*		u	
sec-Butylbenzene	ND	5.0				*	•		
tert-Butylbenzene	ND	5.0	-		•	*	*		
arbon tetrachloride	ND	5.0		,	4			**	
lorobenzene	ND	5.0		*					
Chloroethane	ND	5.0		**					
Maloroform	ND	5.0		*					
loromethane	ND	5.0							
2-Chlorotoluene	ND	5.0							
4-Chlorotoluene	ND	5.0							
oromochloromethane									
promocniorometnane	ND	5.0	-	-				-	



Ninyo & Moore - Irvine

75 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts Reported: 12/14/04 16:14

12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

_	Reporting								
nalyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P1-3-2 (0412057-09) Soll	Sampled: 12/01/04 00:00	Received: 12/	02/04 09:	10					
2-Dibromo-3-chloropropa		5.0	μg/kg	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
2-Dibromoethane (EDB)	ND	5.0	•	**	#	**	•	*	
Dibromomethane	ND	5.0	•	•	*	•	•		
1,2-Dichlorobenzene	ND	5.0	•	•	*		*	•	
-Dichlorobenzene	ND	5.0	•	•		•	*	•	
-Dichlorobenzene	ND	5.0	•	"	•	-	*	*	
Dichlorodifluoromethane	ND	5.0	•	**	*	•	*	•	
L -Dichloroethane	ND	5.0	"	"	**	*	-		
?-Dichloroethane	ND	5.0		*		**	•		
🖷 -Dichloroethene	ND	5.0		*	ч	•	•		
cis-1,2-Dichloroethene	ND	5.0	"	**	4		-	#	
ms-1,2-Dichloroethene	ND	5.0	*			₩.	•	*	
2-Dichloropropane	ND	5.0	•	**	*	*	•	-	
3-Dichloropropane	ND	5.0		-	•	•	•	*	
2,2-Dichloropropane	ND	5.0		**		**		•	
-Dichloropropene	ND	5.0			*		-	-	
-1,3-Dichloropropene	ND	5.0	"	*		•	•	*	
trans-1,3-Dichloropropene	ND	5.0	•	**	**		•		
Friylbenzene	ND	5.0	"	"			•		
xachlorobutadiene	ND	5.0	**	"				*	
Isopropylbenzene	ND	5.0	"			-	*	*	
p-Isopropyltoluene	ND	5.0	"	**		•	•	m	
thylene chloride	ND	5.0	"			*	*	*	
leethyl tert-butyl ether	ND	5.0	•	*	*	*	•	*	
Naphthalene	ND	5.0	"	**	*			•	
Propylbenzene	ND	5.0		**	-	**			
rene	ND	5.0		**					
1,1,2-Tetrachloroethane	ND	5.0			-		-		
1,1,2,2-Tetrachloroethane	ND	5.0	*	*	*		*	*	
Trachloroethene	ND	5.0	•		*	**	-	*	
lucne	ND	5.0	**				•		
1,2,3-Trichlorobenzene	ND	5.0	**			•	-		
1,2,4-Trichlorobenzene	ND	5.0	**		•	*	**		
,1-Trichloroethane	ND	5.0	*		*		**		
1,2-Trichloroethane	ND	5.0		-			**		
Trichloroethene	ND	5.0	-			-	•		
Thichlorofluoromethane	ND	5.0	"	•		#	u		
3-Trichloropropane	ND	5.0	•		•		•	-	
1,2,4-Trimethylbenzene	ND	5.0		*	*	•			
1,3,5-Trimethylbenzene	ND	5.0		**			•		
ayl chloride	ND	5.0	**		*	•	•		
	112	3.0							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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475 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2

Project Number: 205372005
Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

1_		Reporting							
nalyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
71-3-2 (0412057-09) Soil	Sampled: 12/01/04 00:00	Received: 12/	02/04 09:	10					
p-Xylene	ND	5.0	μg/kg	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
Xylene	ND	5.0	"	•	•	*	•	•	
Surrogate: Dibromofluoro	methane	120 %	80-	120	"	~	*	"	
Surrogate: Toluene-d8		101 %	81-	117	*	*	*	*	
"rrogate: 4-Bromofluoroi	benzene	106 %	74-	121	*	•	*	*	
1 -4-1.5 (0412057-10) Soi	I Sampled: 12/01/04 00:00	Received: 1	2/02/04 0 :	9:10					
Benzene	ND	5,0	μg/kg	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
omobenzene	ND	5.0		**	•		-		
Fromochloromethane	ND	5.0	•	**	•	*	•		
Bromodichloromethane	ND	5.0	*	•	*	*		•	
omoform	ND	5.0	**	•	*	*	•	•	
omomethane	ND	5.0	•		*	**	•	•	
n-Butylbenzene	. ND	5.0	*	•		"		•	
sec-Butylbenzene	ND	5.0		*			•	•	
t-Butylbenzene	ND	5.0	"	•	•	•	-	•	
arbon tetrachloride	ND	5.0		*	*	•	•	•	
Chlorobenzene	ND	5.0			*	•	•		
loroethane	ND	5.0	•	*		*		*	
aloroform	ND	5.0		•		*		*	
Chloromethane	ND	5.0		**		*	•	*	
2-Chlorotoluene	ND	5.0		"		**		*	
Chlorotoiuene	ND	5.0	**	"	*	"	"	•	
bromochloromethane	ND	5.0	"		*	•		•	
1,2-Dibromo-3-chloroprop	ane ND	5.0	*	•	*	•	*	•	
2-Dibromoethane (EDB)	ND	5.0	•	•	•	•	-	•	
bromomethane	ND	5.0	*	•			•	•	
1,2-Dichlorobenzene	ND	5.0	•	**	•	•	-	*	
1,3-Dichlorobenzene	ND	5.0	•	•	•	•	•	*	
-Dichlorobenzene	ND	5.0	•	•	*	*	•	•	
chlorodifluoromethane	ND	5.0	*	•		*	*	•	
1,1-Dichloroethane	ND	5.0	•	*	*	•	**	•	
2-Dichloroethane	ND	5.0	•	•		•	*	*	
1-Dichloroethene	ND	5.0	•	•	"	*		**	
-1,2-Dichloroethene	ND	5.0	•			•		**	
trans-1,2-Dichloroethene	ND	5.0	•	•	N	*	•	•	
-Dichloropropane	ND	5.0	**			*	•		
-Dichloropropane	ND	5.0		"		•	-	•	
2,2-Dichloropropane	ND	5.0	•	•	•	•	•	•	
1.1-Dichloropropene	ND	5.0		•	•	•	•	•	
-1,3-Dichloropropene	ND	5.0	**	*	-		*	•	



Surrogate: 4-Bromofluorobenzene

Project: Bloomfield 2
Project Number: 205372005

Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

halyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-4-1.5 (0412057-10) Soil	Sampled: 12/01/04 00:00	Received: 12	2/02/04 (9:10					
trans-1,3-Dichloropropene	ND	5.0	µg∕ k g	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
hylbenzene	ND	5.0		*	•	•	•	•	
R xachlorobutadiene	ND	5.0	•	•		•	-	•	
Isopropylbenzene	ND	5.0	**	•	•	*	•	•	
*Misopropyltoluene	ND	5.0	•	•	•	*		•	
ethylene chloride	ND	5.0	*	*	**	*	*	-	
Methyl tert-butyl ether	ND	5.0	•	•	*	**	•	*	
Naphthalene	ND	5.0		*	**	n	-	•	
Propylbenzene	ND	5.0	•	•	•	•		•	
Tene	ND	5.0	* '		**	*	•	•	
1,1,1,2-Tetrachloroethane	ND	5.0	*		*	*	-	*	
1-1,2,2-Tetrachloroethane	ND	5.0	*	•	"	-		*	
trachloroethene	ND	5.0	н	•	**	-	•	•	
16luene	ND	5.0	*		*	•	•	•	
1,2,3-Trichlorobenzene	ND	5.0		•			•		
.4-Trichlorobenzene	ND	5.0	•	•	*		•	•	
,1-Trichloroethane	ND	5.0	•		*	π	•	*	
1,1,2-Trichloroethane	ND	5.0		*	•	•	*	•	
Trichloroethene	ND	5.0	*		*	•	•	•	
chlorofluoromethane	ND	5.0	•		•	*	•	*	
#,3-Trichloropropane	ND	5.0	•	*			•	•	
1,2,4-Trimethylbenzene	ND	5.0	**	*	•	•	-	•	
♣,5-Trimethylbenzene	ND	5.0	*		•	*	*		
nyl chloride	ND	5.0	*	•	•	•	#	*	
m,p-Xylene	ND	5.0	•		*	**	•		
o-Xylene	ND	5.0		*		*	*		
rogate: Dibromofluorome	thane	117%	80	-120	*		-	•	
Mrrogate: Toluene-d8		101 %	81	-117	•	•	~	-	

74-121

109%



Irvine CA, 92618

Project: Bloomfield 2
Project Number: 205372005

Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	No
					Detter	riepared	Audiyadi	mean	140
1-5-1.5 (0412057-11) Soil		Received: 1							
enzene	ND	5.0	μg/kg	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
romobenzene	ND	5.0				•	•	•	
romochloromethane	ND	5.0	ħ	•		•	•	*	
Bromodichloromethane	ND	5.0			*	*		4	
omoform	ND	5.0	•	*	*	•	*	**	
omomethane	ND	5.0	•	*	*	"	*	•	
n-Butylbenzene	ND	5.0	-	•	•	"	•	•	
ec-Butylbenzene	ND	5.0	•			"	•	•	
t-Butylbenzene	ND	5.0	•		*	•		**	
Marbon tetrachloride	ND	5.0	•	•	₩.	•	•	•	
Chlorobenzene	ND	5.0	•	•		•	•	•	
14 loroethane	ND	5.0	•	•		•	•	•	
loroform	ND	5.0	*	*		•	•	*	
Chloromethane	ND	5.0	•	•	•	•		-	
2-Chlorotoluene	ND	5.0	*			•			
Chlorotoluene	ND	5.0	•	*			•	*	
mbromochloromethane	ND	5,0		-	*	•	•		
,2-Dibromo-3-chloropropane	. ND	5.0		*	tr.	*	*	*	
2-Dibromoethane (EDB)	ND	5.0		**	•	*		#	
bromomethane	ND	5.0	*	"	**		•	•	
2-Dichlorobenzene	ND	5.0	•	*				*	
.3-Dichlorobenzene	ND	5.0	*		н	ĸ			
-Dichlorobenzene	ND	5.0		**	u	*	*		
chlorodifluoromethane	ND	5.0				•	*		
,1-Dichloroethane	ND	5.0						*	
2-Dichloroethane	ND	5.0						-	
-Dichloroethene	ND	5.0							
M-1,2-Dichloroethene	ND	5.0		*					
rans-1,2-Dichloroethene	ND	5.0							
- Dichloropropane	ND ND	5.0							
-Dichloropropane	ND ND	5.0			•				
,2-Dichloropropane	ND	5.0	*						
1-Dichloropropene	ND	5.0	#						
-1,3-Dichloropropene	ND ND	5.0						"	
ns-1,3-Dichloropropene	ND ND	5.0							
ethylbenzene	ND ND	5.0							
•									
xachlorobutadiene	ND	5.0			-		-	-	
propylbenzene	ND	5.0			-	•	•	•	
-Isopropyltoluene	ND	5.0	•	•		•	•		
Methylene chloride	ND	5.0	•	•	•	•	•	•	
thyl tert-butyl ether	ND	5.0	•	"	•	•	•	•	



Ninyo & Moore - Irvine

75 Goddard Suite 200 Irvine CA, 92618

I promochloromethane

Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts Reported: 12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

alyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
1-5-1.5 (0412057-11) Soil		Received: 1	2/02/04 09	:10					
Saphthalene	ND	5.0		1	B4L0706	12/03/04	12/04/04	EPA 8260B	
Propylbenzene	ND	5.0	μg/kg •		B-110700	1203/04	1204/04	M 4200D	
tyrene	ND	5.0			*				
,1,1,2-Tetrachloroethane	ND ND	5.0							
,1,1,2-Tetrachloroethane	ND ND	5.0		*					
	ND ND	5.0							
Coluene	ND ND	5.0							
		5.0							
2,3-Trichlorobenzene 2,4-Trichlorobenzene	ND ND	5.0							
,		5.0							
,1-Trichloroethane	ND								
,1,2-Trichloroethane	ND	5.0	·	ï					
ichloroethene	ND	5.0	-	-	-	-	-	-	
chlorofluoromethane	ND	5.0	·	-		-	-	-	
2,3-Trichloropropane	ND	5.0		-	-	-		-	
2,4-Trimethylbenzene	ND	5.0	•		-				
,5-Trimethylbenzene	ND	5.0	•		•		•	•	
nyl chloride	ND	5.0	•	•	•	•	-	•	
ı,p-Xylene	ND	5.0	•		=		•	*	
Xylene	ND	5.0					*	*	
rogate: Dibromofluorometh	iane	117%	80-1	20	*	*	•	•	
urrogate: Toluene-d8		102 %	81-1	17	*	"	*	"	
urrogate: 4-Bromofluorobenz	ene	103 %	74-1	21	*	"	"	*	
-6-1.5 (0412057-12) Soil	Sampled: 12/01/04 00:00	Received: 12	2/02/04 09	:10					
Benzene	ND	5.0	μg/kg	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
epmobenzene	ND	5.C	"	#	-	*	•		
mochloromethane	ND	5.0							
romodichloromethane	ND	5.0				**	-		
romoform	ND	5.0	*		*		-		
omomethane	ND	5.0			*	*	-	*	
Butylbenzene	ND	5.0							
ec-Butylbenzene	ND	5.0							
# Butylbenzene	ND	5.0			•	**			
rbon tetrachloride	ND	5.0			*	**		*	
morobenzene	ND	5.0			"	**			
Thloroethane	ND	5.0			**	**	*	•	
oroform	ND	5.0							
oromethane	ND ND	5.0		-					
-Chlorotoluene				**		*			
	ND	5.0							
-Chlorotoluene	ND	5.0	-	"	-			•	

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5.0

ND



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475 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

		Reporting							
nalyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
71-6-1.5 (0412057-12) Soll	Sampled: 12/01/04 00:00	Received: 1	2/02/04 0	9:10					
2-Dibromo-3-chloropropan	e ND	5.0	μg/kg	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
2-Dibromoethane (EDB)	ND	5.0		*	*	•	•		
Dibromomethane	ND	5.0	-	•	*	•			
1,2-Dichlorobenzene	ND	5.0			**	•	-	•	
-Dichlorobenzene	ND	5.0	*	•	**	*	-	*	
→Dichlorobenzene	ND	5.0	**		•	•	*	•	
Dichlorodifluoromethane	ND	5.0			*			•	
☐-Dichloroethane	ND	5.0	•	*	**				
2-Dichloroethane	ND	5.0	*	*	н	#	-	*	
-Dichloroethene	ND	5.0	•		•				
cis-1,2-Dichloroethene	ND	5.0		"	•		-	•	
ns-1,2-Dichloroethene	ND	5.0		•			•		
2-Dichloropropane	ND	5.0							
1,3-Dichloropropane	ND	5.0		*	-	•			
2,2-Dichloropropane	ND	5.0							
-Dichloropropene	ND	5.0			•				
-1,3-Dichloropropene	ND	5.0				*			
trans-1,3-Dichloropropene	ND	5.0							
hylbenzene	ND	5.0		*	11				
xachlorobutadiene	ND	5.0			n				
sopropylbenzene	ND	5.0	*	*		u	**	•	
p-Isopropyltoluene	ND	5.0				•			
thylene chloride	ND	5.0		*					
thyl tert-butyl ether	ND	5.0		*	**				
Naphthalene	ND	5.0			*				
Propylbenzene	ND ND	5.0							
/rene	ND	5.0			•				
1,1,2-Tetrachloroethane	ND ND	5.0							
1,1,2,2-Tetrachloroethane	ND ND	5.0							
T,T,Z,Z-Tetrachioroethane	ND	5.0							
luene		5.0							
1,2,3-Trichlorobenzene	ND ND	5.0							
1.2,4-Trichlorobenzene	ND	5.0							
1.1-Trichloroethane	ND	5.0						_	
,2-Trichloroethane	ND	5.0				-		_	
Trichloroethene	ND	5.0	:	-		-	-	-	
hichlorofluoromethane	ND	5.0		:		-		-	
,3-Trichloropropane	ND	5.0	•			*	•	•	
1,2,4-Trimethylbenzene	ND	5.0	•	•	•	•	•	•	
1,3,5-Trimethylbenzene	ND	5.0	•	•	•	•	•	•	
yl chloride	ND	5.0	•	•		•	•	•	



Minyo & Moore - Irvine

75 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts Reported: 12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

halyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P1-6-1.5 (0412057-12) Soll	Sampled: 12/01/04 00:00	Received: 1	2/02/04 09:1	10					
m-p-Xylene	ND	5.0	μg/kg	1	B4L0706	12/03/04	12/04/04	EPA 8260B	
Kylene	ND	5.0		**	*	•	•	•	
Surrogate: Dibromofluorome	ethane	115 %	80-12	0	*	#	,		
Surrogate: Toluene-d8		101 %	81-11	7	•	"	*	*	
rrogate: 4-Bromofluorobe	nzene	108 %	74-12	I	*	~	**	•	



Project: Bloomfield 2
Project Number: 205372005

Reported: 12/14/04 16:14

Project Manager: Paul Roberts Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C Sierra Analytical Labs, Inc.

^{et} nalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	No
74-1-2 (0412057-01) Soil	Sampled: 12/01/04 00:00	Received: 12/	02/04 09:	10					
cenaphthene	ND	3.3	mg/kg	10	B4L0716	12/07/04	12/07/04	EPA 8270C	
cenaphthylene	ND	3.3	•	*	•		-	**	
Inthracene	ND	3.3	*	•		"	•	-	
Benzo (a) anthracene	ND	3.3		•	•	**	•		
nzo (b) fluoranthene	ND	3.3		*	*		"	•	
mzo (k) fluoranthene	ND	3.3	•	a		"	-	•	
Benzo (a) pyrene	ND	3.3	•	•	*	#	•	•	
Benzo (g,h,i) perylene	ND	3.3		*	*	•	•	•	
ırysene	ND	3.3	•		"		•	-	
wbenz (a,h) anthracene	ND	3.3	*	•		**	-	*	
Dibenzofuran	ND	3.3	•			*	•	*	
Auoranthene	ND	3.3		•	•	*	*	*	
uorene	ND	3.3	•	•	•	#	*	#	
fideno (1,2,3-cd) pyrene	ND	3.3				н	•		
2-Methylnaphthalene	ND	3.3		*	*				
"hphthalene	ND	3.3					#	*	
enanthrene	ND	3.3				-	•		
yrene	ND	3.3	*						
errogate: Nitrobenzene-d5		73.0 %	23-	120	*	м			
rrogate: 2-Fluorobiphen	vl	90.1 %	30	115	•	•	-	*	
urrogate: Terphenyl-d14		98.2 %	18-	137	~	•	~	*	
E4 2 2 (04120E7 04) C-II									
(M)-2-2 (U412U3/-U4) 30H	Sampled: 12/01/04 00:00	Received: 12/	02/04 09:	10					
	Sampled: 12/01/04 00:00 ND	0.33	02/04 09; mg/kg	1	B4L0716	12/07/04	12/07/04	EPA 8270C	
enaphthene					B4L0716	12/07/04	12/07/04	EPA 8270C	
renaphthene Acenaphthylene	ND	0.33		1	B4L0716	12/07/04	12/07/04	EPA 8270C	
Acenaphthene Acenaphthylene Anthracene	ND ND	0.33 0.33	mg/kg	1	•	12/07/04	12/07/04	EPA 8270C	
Acenaphthene Acenaphthylene Authracene nzo (a) anthracene	ND ND ND	0.33 0.33 0.33	mg/kg	1	:	12/07/04	12/07/04	EPA 8270C	
Acenaphthene Acenaphthylene Apthracene nzo (a) anthracene Mazo (b) fluoranthene	ND ND ND ND	0.33 0.33 0.33 0.33	mg/kg	1	:	12/07/04	12/07/04	EPA 8270C	
Acenaphthene Acenaphthylene Apthracene 120 (a) anthracene Enzo (b) fluoranthene Benzo (k) fluoranthene	ND ND ND ND	0.33 0.33 0.33 0.33 0.33	mg/kg	1	:	12/07/04	12/07/04	EPA 8270C	
Accnaphthene Accnaphthylene Athracene 120 (a) anthracene 22nzo (b) fluoranthene 32nzo (k) fluoranthene 32nzo (a) pyrene	ND ND ND ND ND	0.33 0.33 0.33 0.33 0.33	mg/kg	1		12/07/04	12/07/04	EPA 8270C	
Accnaphthene Accnaphthylene Anthracene 120 (a) anthracene 120 (b) fluoranthene 3cn20 (k) fluoranthene 120 (g,h,i) perylene	ND ND ND ND ND ND	0.33 0.33 0.33 0.33 0.33 0.33	mg/kg	1		12/07/04	12/07/04	EPA 8270C	
nenaphthene Accnaphthylene Anthracene 120 (a) anthracene 120 (b) fluoranthene 120 (c) pyrene 120 (g,h,i) perylene 120 (g,h,i) perylene	ND	0.33 0.33 0.33 0.33 0.33 0.33 0.33	mg/kg	1		12/07/04	12/07/04	EPA 8270C	
Accnaphthene Accnaphthylene Apthracene nzo (a) anthracene flenzo (b) fluoranthene senzo (k) fluoranthene mzo (a) pyrene mzo (g,h,i) perylene Libenz (a,h) anthracene	ND ND ND ND ND ND ND ND	0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33	mg/kg	1		12/07/04	12/07/04	EPA 8270C	
ecnaphthene Accnaphthylene Attracene 120 (a) anthracene 120 (b) fluoranthene 120 (c) fluoranthene 120 (c) fluoranthene 120 (g,b,i) perylene hrysene bibenz (a,h) anthracene benzofuran	ND ND ND ND ND ND ND ND	0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33	mg/kg	1		12/07/04	12/07/04	EPA 8270C	
Accnaphthene Accnaphthylene Athracene 120 (a) anthracene 120 (b) fluoranthene 3cn20 (k) fluoranthene 120 (g,h,i) peryiene 120 (g,h,i) peryiene 120 (a,h) anthracene 120 (a,h) anthracene 120 (a,h) anthracene 120 (a,h) anthracene	ND N	0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33	mg/kg	1			12/07/04	EPA 8270C	
Acenaphthene Acenaphthylene Asthracene nzo (a) anthracene nzo (b) fluoranthene enzo (k) fluoranthene nzo (a) pyrene nzo (g,h,i) perylene chrysene benzofuran horanthene Fluorene	ND N	0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33	mg/kg	1			12/07/04	EPA 8270C	
Accnaphthene Accnaphthylene Apthracene 120 (a) anthracene 120 (b) fluoranthene 120 (c) fluora	ND N	0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33	mg/kg	1			12/07/04	EPA 8270C	
Accnaphthene Accnaphthylene Accnaphthylene Anthracene 120 (a) anthracene 120 (b) fluoranthene 130 (2) fluoranthene 140 (1) fluoranthene	. ND	0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33	mg/kg	1	-		12/07/04	EPA 8270C	
Accnaphthene Accnaphthylene Apthracene 120 (a) anthracene 120 (b) fluoranthene Benzo (k) fluoranthene 120 (g,h,i) perylene Chrysene Dibenz (g,h) anthracene benzofuran Horanthene Fluorene	ND N	0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33	mg/kg				12/07/04	EPA 8270C	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ninyo & Moore - Irvine

475 Goddard Suite 200 Irvine CA, 92618

Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

halyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-2-2 (0412057-04) Soll	Sampled: 12/01/04 00:00	Received: 12/	02/04 09:	10					-
Surrogate: Nitrobenzene-d5		102 %	23-	120	B4L0716	12/07/04	12/07/04	EPA 8270C	
rrogate: 2-Fluorobiphenyl	!	106 %	30-	115	*	•	•	•	
mrrogate: Terphenyl-d14		133 %	18-	137	*	~	•	"	
P1-1-2.5 (0412057-07) Soll	Sampled: 12/01/04 00:00	Received: 12	2/02/04 09	9:10					
enaphthene	ND	3.3	mg/kg	10	B4L0716	12/07/04	12/07/04	EPA 8270C	
Acenaphthylene	ND	3.3	"	•	•	•	•	•	
Anthracene	ND	3.3	**		•	•	*	•	
nzo (a) anthracene	ND	3.3	•		•	*	*		
nzo (b) fluoranthene	ND	3.3	•	*	•	*		*	
Benzo (k) fluoranthene	ND	3.3	•		•		*	•	
Hanzo (a) pyrene	ND	3.3	*		-	•	•	*	
nzo (g,h,i) perylene	ND	3.3	•		*	*	•		
Chrysene	ND	3.3	*	•	•		•		
Dibenz (a,h) anthracene	ND	3.3	•	*		•	•	•	
Denzofuran	ND	3.3	*	u	*		•		
Lanoranthene	ND	3.3			*	•		*	
Fluorene	ND	3.3		п	*	*			
Indeno (1,2,3-cd) pyrene	ND	3.3		*	•	*	*	**	
Methylnaphthalene	ND	3.3		*	*			•	
Miphthalene	ND	3.3	•		-	•	*		
Phenanthrene	ND	3.3	•	*	•	•	•		
Percne	ND	3.3			•		•	•	
rogate: Nitrobenzene-d5		101 %	23-	120	*	"		*	
Surrogate: 2-Fluorobiphenyl		106 %	30-	115	"	*	"	*	
Surrogate: Terphenyl-d14		125 %	18-	137	*	~	•	"	



175 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Reporting

nalyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-2-2.5 (0412057-08) Soll	Sampled: 12/01/04 00:00	Received: 12	2/02/04 05):10					
Acenaphthene	ND	3.3	mg/kg	10	B4L0716	12/07/04	12/07/04	EPA 8270C	
penaphthylene	ND	3.3	•	•	•	•	*	•	
hthracene	ND	3.3	"		•	*	*	•	
Benzo (a) anthracene	ND	3.3	*	•	*	"	•		
nzo (b) fluoranthene	ND	3.3	•	•	**	•	•	•	
enzo (k) fluoranthene	ND	3.3	•	*	•	•	•	•	
Benzo (a) pyrene	ND	3.3	*	•	•	•	-	•	
Benzo (g,h,i) perylene	ND	3.3	•	•	•	*	*	•	
rysene	ND	3.3	*			*	•	-	
benz (a,h) anthracene	ND	3.3		•	*			**	
Dibenzofuran	ND	3.3			*	•	•		
Muoranthene	ND	3.3	•	*	*		*	*	
Jorene	ND	3.3	•	•	•	•	*	-	
indeno (1,2,3-cd) pyrene	ND	3.3	•	•	-	•		•	
2-Methylnaphthalene	ND	3.3	*	-	*			*	
phthalene	ND	3.3	*		*		•		
enanthrene	ND	3.3			-	•	*	•	
Pyrene	ND	3.3	•			•	•		
0 17: 1							,,		
Progate: Nitrobenzene-d5		85.0 %	23-	120	-			-	
rogate: Nitrobenzene-d5 Frogate: 2-Fluorobiphenyl	1	85.0 % 71.2 %	23- 30-		-	-		•	
imrogate: Nitrobenzene-d5 progate: 2-Fluorobiphenyl Surrogate: Terphenyl-d14	1		30-						
rrogate: 2-Fluorobiphenyl surrogate: Terphenyl-d14		71.2 % 90.1 %	30- 18-	115 137	•	•	•		
rrogate: 2-Fluorobiphenyl		71.2 % 90.1 %	30- 18-	115 137	•	•	•		
rrogate: 2-Fluorobiphenyl Surrogate: Terphenyl-d14 Mi-3-2 (0412057-09) Soll	Sampled: 12/01/04 00:00	71.2 % 90.1 % Received: 12/	30- 18- 02/04 09:	115 137 10		*	"	*	
progate: 2-Fluorobiphenyl Surrogate: Terphenyl-d14 Ma-3-2 (0412057-09) Soil menaphthene Acenaphthylene	Sampled: 12/01/04 00:00 ND	71.2 % 90.1 % Received: 12/ 3.3	30- 18- 02/04 09:	115 137 10		*	"	*	
progate: 2-Fluorobiphenyl Surrogate: Terphenyl-dl4 Ma-3-2 (0412057-09) Soil menaphthene Accnaphthylene	Sampled: 12/01/04 00:00 ND ND	71.2 % 90.1 % Received: 12/ 3.3 3.3	30- 18- 02/04 09: mg/kg	115 137 10	B4L0716	*	"	*	
progate: 2-Fluorobiphenyl Surrogate: Terphenyl-d14 NA-3-2 (0412057-09) Soli (1997) Senaphthene Acenaphthylene Acthracene nzo (a) anthracene	Sampled: 12/01/04 00:00 ND ND ND ND	71.2 % 90.1 % Received: 12/ 3.3 3.3 3.3	30- 18- 02/04 09: mg/kg	115 137 10	B4L0716	*	"	*	
progate: 2-Fluorobiphenyl Surrogate: Terphenyl-d/4 NA-3-2 (0412057-09) Soli (1412057-09) Soli (1412057-09) Soli (1412057-09) Soli (1412057	ND ND ND ND ND ND	71.2 % 90.1 % Received: 12/ 3.3 3.3 3.3 3.3	30- 18- 02/04 09: mg/kg	115 137 10	B4L0716	*	12/07/04	*	
progate: 2-Fluorobiphenyl Surrogate: Terphenyl-d14 Na-3-2 (0412057-09) Soil senaphthene Acenaphthylene Asthracene nzo (a) anthracene Orazo (b) fluoranthene Benzo (k) fluoranthene	ND N	71.2 % 90.1 % Received: 12/ 3.3 3.3 3.3 3.3 3.3	30- 18- 02/04 09: mg/kg	115 137 10	B4L0716	*	12/07/04	*	
progate: 2-Fluorobiphenyl Surrogate: Terphenyl-d14 Na-3-2 (0412057-09) Soil enaphthene Accnaphthylene Acthracene nzo (a) anthracene enzo (b) fluoranthene Benzo (k) fluoranthene Benzo (a) pyrene	ND N	71.2 % 90.1 % Received: 12/ 3.3 3.3 3.3 3.3 3.3 3.3	30- 18- 02/04 09: mg/kg	115 137 10	B4L0716	*	12/07/04	*	1
progate: 2-Fluorobiphenyl Surrogate: Terphenyl-d14 Na-3-2 (0412057-09) Soli (1412057-09) Soli (1412057	ND N	71.2 % 90.1 % Received: 12/ 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3	30- 18- 02/04 09: mg/kg	115 137 10	B4L0716	*	12/07/04	*	
progate: 2-Fluorobiphenyl Surrogate: Terphenyl-dl4 Na-3-2 (0412057-09) Soll is exchaptithene Acchaptithylene Acthracene nzo (a) anthracene Benzo (b) fluoranthene Benzo (a) pyrene Inzo (a) pyrene Inzo (g,h,i) perylene Chrysene	ND N	71.2 % 90.1 % Received: 12/ 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3	30- 18- 02/04 09: mg/kg	115 137 10 10	B4L0716	*	12/07/04	*	
Surrogate: 2-Fluorobiphenyl Surrogate: Terphenyl-d14 NA-3-2 (0412057-09) Soil	ND N	71.2 % 90.1 % Received: 12/ 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.	30- 18- 02/04 09: mg/kg	115 137 10 10	B4L0716	*	12/07/04	*	
progate: 2-Fluorobiphenyl Surrogate: Terphenyl-d14 Na-3-2 (0412057-09) Soil canaphthene Acenaphthylene Anthracene nzo (a) anthracene nzo (b) fluoranthene Benzo (k) fluoranthene nzo (a) pyrene nzo (g,h,i) perylene Chrysene Dibenz (a,h) anthracene	ND ND ND ND ND ND ND ND	71.2 % 90.1 % Received: 12/2 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.	30- 18- 02/04 09: mg/kg	10 10	B4L0716	*	12/07/04	*	
rogate: 2-Fluorobiphenyl Surrogate: Terphenyl-d14 Na-3-2 (0412057-09) Soil Senaphthene Acenaphthylene Acenaphthylene Acenaphthylene Inzo (a) anthracene Benzo (b) fluoranthene Benzo (k) fluoranthene Inzo (a) pyrene Inzo (a) pyrene Inzo (a) pyrene Inzo (a) pyrene Inzo (a) h) anthracene benzofuran Inoranthene	ND N	71.2 % 90.1 % Received: 12/ 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3	30- 18- 02/04 09: mg/kg	10 10	B4L0716	*	12/07/04	*	
progate: 2-Fluorobiphenyl Surrogate: Terphenyl-dl4 Ma-3-2 (0412057-09) Soll (1) menaphthene Accnaphthylene Authracene Inzo (a) anthracene Benzo (b) fluoranthene Benzo (c) fluoranthene Inzo (a) pyrene Inzo (a) pyrene Inzo (g,h,i) perylene Chrysene Dibenz (a,h) anthracene Denzo furan menaphthene Fluorene	ND N	71.2 % 90.1 % Received: 12/2 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.	30-18- 02/04 09: mg/kg	10 10	B4L0716	*	12/07/04	*	
progate: 2-Fluorobiphenyl Surrogate: Terphenyl-d14 Na-3-2 (0412057-09) Soil Surcaphthene Acenaphthylene Apthracene nzo (a) anthracene Benzo (b) fluoranthene Benzo (k) fluoranthene Benzo (g,h,i) perylene Chrysene Dibenz (a,h) anthracene Denzofuran Haoranthene Fluorene Fluorene Fluorene Lipane (1,2,3-cd) pyrene	ND ND ND ND ND ND ND ND	71.2 % 90.1 % Received: 12/2 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.	30-18- 02/04 09: mg/kg	10 10	B4L0716	*	12/07/04	*	
progate: 2-Fluorobiphenyl Surrogate: Terphenyl-d14 Na-3-2 (0412057-09) Soil Senaphthene Acenaphthylene Agthracene Inzo (a) anthracene Benzo (b) fluoranthene Benzo (c), filuoranthene Inzo (a) pyrene Inzo (a) pyrene Inzo (a,h) perylene Chrysene Dibenz (a,h) anthracene	ND ND ND ND ND ND ND ND	71.2 % 90.1 % Received: 12/2 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.	30-18- 02/04 09: mg/kg	10 10	B4L0716	*	12/07/04	*	
rogate: 2-Fluorobiphenyl Surrogate: Terphenyl-d14 Na-3-2 (0412057-09) Soil Senaphthene Acenaphthylene Acenaphthylene Acenaphthylene Inzo (a) anthracene Benzo (b) fluoranthene Benzo (k) fluoranthene Inzo (a) pyrene Inzo (a) pyrene Inzo (a) pyrene Inzo (a) pyrene Inzo (a) h) anthracene benzofuran Inoranthene	ND ND ND ND ND ND ND ND	71.2 % 90.1 % Received: 12/2 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.	30-18- 02/04 09: mg/kg	10 10	B4L0716	*	12/07/04	*	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Surrogate: Terphenyl-d14

Irvine CA, 92618

Project: Bloomfield 2
Project Number: 205372005

Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

		Reporting							
halyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
14-3-2 (0412057-09) Soil S	Sampled: 12/01/04 00:00	Received: 12/	02/04 09:	10					-
Surrogate: Nitrobenzene-d5		93.1 %	23-	120	B4L0716	12/07/04	12/07/04	EPA 8270C	-
rrogate: 2-Fluorobiphenyl		101 %	30-	115	*	•	**	•	
mrrogate: Terphenyl-d14		113 %	18-	137	•	"	"	•	
P1-4-1.5 (0412057-10) Soil	Sampled: 12/01/04 00:00	Received: 1	2/02/04 09	9:10					
enaphthene	ND	3.3	mg/kg	10	B4L0716	12/07/04	12/07/04	EPA 8270C	
Acenaphthylene	ND	3.3	*	•		•	•	•	
Anthracene	ND	3.3		•		**	**	*	
nzo (a) anthracene	ND	3.3	*	**		•		*	
mnzo (b) fluoranthene	ND	3.3		*	*	*		•	
Benzo (k) fluoranthene	ND	3.3					•	•	
Denzo (a) pyrene	ND	3.3	•	•		•			
nzo (g,h,i) perylene	ND	3.3					•		
Chrysene	ND	3.3		*	•	#	•		
Dibenz (a,h) anthracene	ND	3.3		*	*	*	*	•	
Poenzofuran	ND	3.3			*	ч	#	*	
oranthene	ND	3.3	•	• .		ч	•		
Fluorene	ND	3.3				•	•		
Indeno (1,2,3-cd) pyrene	ND	3,3		•	*				
Aethylnaphthalene	ND	3.3		•	•	*			
Miphthalene	ND	3.3				-	•		
Phenanthrene	ND	3.3	•	*			*	*	
Burene	. ND	3.3	*	•	•				
Surrogate: Nitrobenzene-d5		71.2 %	23	120	•		"	"	
Surrogate: 2-Fluorobiphenyl	!	111 %	30-	115	•	•	•	•	

18-137

117%



Irvine CA, 92618

Project Number: 205372005
Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

		Reporting							
nalyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
1-5-1.5 (0412057-11) Sell	Sampled: 12/01/04 00:00	Received: 1	2/02/04 0	9:10					•
cenaphthene	ND	3.3	mg/kg	10	B4L0716	12/07/04	12/07/04	EPA 8270C	
cenaphthylene	ND	3.3	•	•	*	-	•	•	
nthracene	ND	3.3		•	**	*	•	•	
enzo (a) anthracene	ND	3.3	•	•	•	•	•	•	
anzo (b) fluoranthene	ND	3.3	•			•	•		
enzo (k) fluoranthene	ND	3.3		•		*	•	•	
enzo (a) pyrene	ND	3.3				•	*	•	
enzo (g,h,i) perylene	ND	3.3	•			*	•		
arysene	ND	3.3	*	*		*	*		
benz (a,h) anthracene	ND	3.3	*	•	**	*		•	
ibenzofuran	ND	3.3	*	**	**	•	•	*	
uoranthene	ND	3.3	•	•		*	-	•	
norene	ND	3.3	•	•		*		•	
ndeno (1,2,3-cd) pyrene	ND	3.3	*	•	*	•	•		
Methylnaphthalene	ND	3.3	•	•			•	•	
phthalene	ND	3.3	•	•		•		*	
enanthrene	ND	3.3	•	*	**	•	•	•	
yrene	ND	3.3	•				•	*	
rrogate: Nitrobenzene-d5		74.2 %	23-	120	*	,	*		
arrogate: 2-Fluorobiphenyl		83.2 %	30-	115	*	•	*	*	
urrogate: Terphenyl-d14		89.2 %	18-	137	*	"	"	*	
₱-6-1.5 (0412057-12) Soil	Sampled: 12/01/04 00:00	Received: 12	2/02/04 09	9:10					
4									
tenaphthene	ND	3.3	mg/kg	10	B4L0716	12/07/04	12/08/04	EPA 8270C	
			mg/kg	10	B4L0716	12/07/04	12/08/04	EPA 8270C	
cenaphthylene	ND	3.3	mg/kg		B4L0716	12/07/04	12/08/04	EPA 8270C	
cenaphthylene hthracene anzo (a) anthracene	ND ND	3.3 3.3	mg/kg	•	•	12/07/04	12/08/04	EPA 8270C	
acenaphthylene Athracene anzo (a) anthracene enzo (b) fluoranthene	ND ND ND	3.3 3.3 3.3	mg/kg		•	12/07/04	12/08/04	EPA 8270C	
acenaphthylene thracene anzo (a) anthracene enzo (b) fluoranthene enzo (k) fluoranthene	ND ND ND ND	3.3 3.3 3.3 3.3		:	:	:	12/08/04	EPA 8270C	
acenaphthylene thracene anzo (a) anthracene enzo (b) fluoranthene enzo (k) fluoranthene	ND ND ND ND ND	3.3 3.3 3.3 3.3 3.3		:	:	:	12/08/04	EPA 8270C	
accnaphthylene athracene azo (a) anthracene enzo (b) fluoranthene enzo (k) fluoranthene azo (a) pyrene	ND ND ND ND ND	3.3 3.3 3.3 3.3 3.3 3.3	:	:		:	12/08/04	EPA 8270C	
conaphthylene athracene azo (a) anthracene cazo (b) fluoranthene cazo (k) fluoranthene cazo (a) pyrene lazo (g,h,i) perylene hrysene	ND ND ND ND ND ND	3.3 3.3 3.3 3.3 3.3 3.3 3.3	:	:		:	12/08/04	EPA 8270C	
conaphthylene athracene nzo (a) anthracene enzo (b) fluoranthene enzo (k) fluoranthene enzo (k) fluoranthene nzo (g,h,i) perylene hrysene libenz (a,h) anthracene	ND ND ND ND ND ND ND	3.3 3.3 3.3 3.3 3.3 3.3 3.3	:	:	-	:		EPA 8270C	
cenaphthylene athracene azo (a) anthracene enzo (b) fluoranthene enzo (a) pyrene lazo (g,h,i) perylene hrysene benz (a,h) anthracene benzofuran	ND ND ND ND ND ND ND ND	3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3				:		EPA 8270C	
cenaphthylene athracene azo (a) anthracene enzo (b) fluoranthene enzo (k) fluoranthene azo (a) pyrene lazo (g,h,i) perylene hysene benz (a,h) anthracene benzofuran	ND ND ND ND ND ND ND ND ND	3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3				:		EPA 8270C	
cenaphthylene athracene azo (a) anthracene enzo (b) fluoranthene enzo (k) fluoranthene enzo (a) pyrene lazo (g,h,i) perylene thrysene benz (a,h) anthracene benzofuran uoranthene	ND ND ND ND ND ND ND ND ND ND	3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3				:		EPA 8270C	
conaphthylene athracene anzo (a) anthracene enzo (b) fluoranthene enzo (k) fluoranthene enzo (g, h,i) perylene hrysene ibenz (a,h) anthracene benzofuran utoranthene luorene	ND ND ND ND ND ND ND ND ND ND ND	3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3						EPA 8270C	
conspittly lene a thracene enzo (a) anthracene enzo (b) fluoranthene enzo (k) fluoranthene enzo (k) fluoranthene enzo (g,h,i) perylene hrysene ibenz (a,h) anthracene benzofuran turoranthene luorene luorene luorene	ND ND ND ND ND ND ND ND ND ND ND ND	3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3						EPA 8270C	
ncenaphthylene thracene nzo (a) anthracene enzo (b) fluoranthene enzo (k) fluoranthene enzo (k) fluoranthene enzo (a) pyrene lazo (g,h,i) perylene hrysene benzofuran tuoranthene luorene luorene lueno (1,2,3-ed) pyrene entethylnaphthalene	ND N	3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3			-			EPA 8270C	
lecnaphthene conaphthylene thracene thracene cazo (a) anthracene cazo (b) fluoranthene cazo (c) fluoranthene cazo (c) fluoranthene cazo (g,h.i) perylene chrysene chrysene benzofuran thoranthene cluorene deno (1,2,3-cd) pyrene dethylnaphthalene depthalene deno (1,2,3-cd) pyrene dethylnaphthalene denonthrene	ND N	3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3						EPA 8270C	



Irvine CA, 92618

Project: Bloomfield 2

Project Number: 205372005
Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

aalyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P1-6-1.5 (0412057-12) Soli	Sampled: 12/01/04 00:00	Received: 12	/02/04 0	9:10					
mrrogate: Nitrobenzene-d5		71.2 %	23-	120	B4L0716	12/07/04	12/08/04	EPA 8270C	
rrogate: 2-Fluorobiphenyl Surrogate: Terphenyl-d14		93.1 %	30-	115	~	*	-	•	
Surrogate: Terphenyl-d14		103 %	18-	137	"	*	"	•	



Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts

Reported: 12/14/04 16:14

RPD

Limit

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Spike

Level

Source

Result

%REC

%REC

Limits

RPD

Reporting

Limit

Batch B4L0906 - EPA 3050B							
ank (B4L0906-BLK1)				Prepared: 12/0	9/04 Analyze	i: 12/13/04	
Intimoty	ND	1.6	mg/kg				
Arsenic	ND	1.7	•				
rium	ND	3.3	•				
ryllium	ND	0.68	*				
Cadmium	ND	0.51	*				
romium	ND	0.98	*				
balt	ND	2.2	*				
Copper	ND	2.2	•				
ead	ND	1.3	•				
lybdenum	ND	1.7	-				
nekel	ND	0.79	•				
elenium	ND	1.9	•				
va ·	ND	0.80	•				
allium	ND	1.5	*				
anadium	ND	0.73	•				
inc	ND	1.3	"				
MCS (B4L0906-BS1)				Prepared: 12/0	09/04 Analyze	i: 12/13/04	
utimony	94.2	1.6	mg/kg	100	94.2	75-125	
enic .	101	1.7	,	100	101	78-122	
rium	102	3.3	#	100	102	80-120	
eryllium	94.9	0.68	•	100	94.9	80-120	
admium	98.5	0.51	•	100	98.5	80-120	
romium	102	0.98		100	102	80-120	
Obalt	97.7	2.2	*	100	97.7	80-120	
Copper	101	2.2	**	100	101	78-122	
ad	102	1.3		100	102	80-120	
lybdenum	103	1.7		100	103	80-120	
fickel	99.5	0.79	•	100	99.5	80-120	
enium	99.3	1.9	**	100	99.3	76-124	
wer	99.0	0.80	**	100	99.0	60-140	
ballium .	95.0	1.5	*	100	95.0	80-120	
anadium	100	0.73		100	100	80-120	
့်င -	90.2	1.3	•	100	90.2	78-122	



Ninyo & Moore - Irvine

75 Goddard Suite 200 Irvine CA, 92618 Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts Reported: 12/14/04 16:14

RPD

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Spike

Source

%REC

Reporting

TENT .		Reporting		Spuke	Source		WHEC		KrD	
alyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B4L0906 - EPA 3050B				_						
S Dup (B4L0906-BSD1)				Prepared	12/09/04	Analyzed	: 12/13/04			
Antimony	97.0	1.6	mg/kg	100		97.0	75-125	2.93	20	
Arsenic	100	1.7	•	100		100	78-122	0.995	20	
ium	103	3.3	•	100		103	80-120	0.976	20	
Maryllium	98.1	0.68	*	100		98.1	80-120	3.32	20	
Cadmium	99.1	0.51	*	100		99.1	80-120	0.607	20	
- comium	103	0.98	*	100		103	80-120	0.976	20	
alt	101	2.2	*	100		101	80-120	3.32	20	
Соррег	106	2.2	•	100		106	78-122	4.83	20	
Lead	100	1.3	*	100		100	80-120	1.98	20	
lybdenum	101	1.7	•	100		101	80-120	1.96	20	
ikel	97.7	0.79		100		97.7	80-120	1.83	20	
Selenium	97.3	1.9		100		97.3	76-124	2.03	20	
- Prer	99.7	0.80	•	100		99.7	60-140	0.705	40	
llium	90.9	1.5	•	100		90.9	80-120	4.41	20	
Vanadium	101	0.73	*	100		101	80-120	0.995	20	
Fine	93.6	1.3	•	100		93.6	78-122	3.70	20	
Matrix Spike (B4L0906-MS1)	So	urce: 041205	57 -0 1	Prepared:	12/09/04	Analyzed	: 12/13/04			
Antimony	17.5	1.6	mg/kg	91.5	ND	19.1	60-140			QM-0
enic	107	1.7		91.5	6.4	110	70-130			
ium	318	3.3	*	91.5	220	107	70-130			
Beryllium	87.6	0.68	*	91.5	ND	95.7	70-130			
Cadmium	97.0	0.51		91.5	ND	106	70-130			
omium	132	0.98	•	91.5	32	109	70-130			
Cobalt	96.4	2.2	•	91.5	14	90.1	70-130			
Copper	117	2.2	**	91.5	26	99.5	70-130			
™d	110	1.3	•	91.5	14	105	70-130			
ybdenum	95.4	1.7	*	91.5	1.1	103	70-130			
Nickel	116	0.79		91.5	22	103	70-130			
nium .	97.4	1.9		91.5	ND	106	70-130			
Surer	86.5	0.80		91.5	ND	94.5	60-140			
Challium .	86.7	1.5	*	91.5	ND	94.8	70-130			
Vanadium	158	0.73	•	91.5	55	113	70-130			
pl (97)	139	13		91.5	55	91.8	70-130			



Irvine CA, 92618

Project: Bloomfield 2 Number: 205372005

Project Number: 205372005 Project Manager: Paul Roberts Reported: 12/14/04 16:14

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

i		Reporting		Spike	Source		%REC		RPD	
nalyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B4L0906 - EPA 3050B										
atrix Spike Dup (B4L0906-MSD1)	Sou	rce: 041205	7-01	Prepared:	12/09/04	Analyzed	12/13/04			
Antimony	21.4	1.6	mg/kg	94.2	ND	22.7	60-140	20.1	20	QM-0
Arsenic	110	1.7	•	94.2	6.4	110	70-130	2.76	20	
rium	314	3.3	•	94.2	220	99.8	70-130	1.27	20	
eryllium .	89.1	0.68	#	94.2	ND	94.6	70-130	1.70	20	
Cadmium	101	0.51	•	94.2	ND	107	70-130	4.04	20	
(Huromium	137	0.98	*	94.2	32	111	70-130	3.72	20	
balt	98.8	2.2		94.2	14	90.0	70-130	2.46	20	
Copper	120	2.2		94.2	26	99.8	70-130	2.53	20	
Lead	114	1,3	*	94.2	14	106	70-130	3.57	20	
olybdenum	98.7	1.7		94.2	1.1	104	70-1 3 0	3.40	20	
(Mickel	120	0.79	•	94.2	22	104	70-130	3.39	20	
Selenium	102	1.9	н	94.2	ND	108	70-130	4.61	20	
wer er	91.6	0.80	•	94.2	ND	97.2	60-140	5.73	40	
allium	89.0	1.5		94.2	ND	94.5	70-130	2.62	20	
Vanadium	162	0.73	"	94.2	55	114	70-130	2.50	20	
Zinc	141	1.3	•	94.2	55	91.3	70-130	1.43	20	
Match B4L0907 - EPA 7471A										
Blank (B4L0907-BLK1)				Prepared:	12/09/04	Analyzed	12/10/04			
ercury	ND	0.18	mg/kg							
™ LCS (B4L0907-BS1)				Prepared:	12/09/04	Analyzed	12/10/04			
Метсигу	0.18	0.18	mg/kg	0.167		108	70-130			
matrix Spike (B4L0907-MS1)	Sou	rce: 041205	7-01	Prepared:	12/09/04	Analyzed	12/10/04			
Mercury	0.21	0.18	mg/kg	0.155	0.04	110	70-130			



Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts Reported: 12/14/04 16:14

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

' <i>></i>		Reporting		Spike	Source		%REC		RPD	
aalyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch B4L0907 - EPA 7471A

atrix Spike Dup (B4L0907-MSD1) Source: 0412057-01 Prepared: 12/09/04 Analyzed: 12/10/04 Mercury 0.22 0.18 mg/kg 0.153 0.04 118 70-130 4.65 25



Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts

Sierra Analytical Labs, Inc.

Reported: 12/14/04 16:14

Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID - Quality Control

×		Reporting		Spike	Source		%REC		RPD	
alyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B4L0505 - EPA 5035 P & T										
ank (B4L0505-BLK1)				Prepared o	& Analyza	ed: 12/05/	04			
Msoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg							
Surrogate: a,a,a-Trifluorotohiene	0.0238		"	0.0200		119	35-130			
S (B4L0505-BS1)				Prepared a	& Analyza	ed: 12/05/	04			
Fasoline Range Hydrocarbons (C4-C12)	0.611	0.050	mg/kg	0,600		102	80-120			
*atrix Spike (B4L0505-MS1)	Sot	rce: 041205	7-12	Prepared a	& Analyza	ed: 12/05/	04			
soline Range Hydrocarbons (C4-C12)	0.585	0,050	mg/kg	0.600	ND	97.5	50-150			
Matrix Spike Dup (B4L0505-MSD1)	Sot	ırce: 0412 0 5	7-12	Prepared a	& Analyza	ed: 12/05/	04			
soline Range Hydrocarbons (C4-C12)	0.583	0.050	mg/kg	0.600	ND	97.2	50-150	0.342	30	



Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts Reported: 12/14/04 16:14

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control

•		Reporting		Spike	Source		%REC		RPD	
nalyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B4L0908 - EPA 3550B Solid Ext										
ank (B4L0908-BLK1)				Prepared:	12/06/04	Analyzed	12/09/04			
C < C8	ND	1.0	mg/kg							
C8 <= HC < C9	ND	1.0	*							
- HC < C10	ND	1.0								
0 <= HC < C11	ND	1.0	*							
C11 <= HC < C12	ND	1.0	п							
1 2 <= HC < C14	ND	1.0								
_ 4 <= HC < C16	ND	1.0								
C16 <= HC < C18	ND	1.0	*							
C18 <= HC < C20	ND	1.0	*							
0 <= HC < C24	ND	1.0	*							
4 <= HC < C28	ND	1.0	•							
C28 <= HC < C32	ND	1.0	•							
► C32	ND	1.0	•							
tal Petroleum Hydrocarbons (C7-C36)	ND	5.0	•							
Surrogate: o-Terphenyl	7.50		"	7,50		100	50-150			
S (B4L0908-BS1)				Prepared:	12/06/04	Analyzed:	12/09/04			
Resel Range Organics (C10-C24)	97.2	5.0	mg/kg	100		97.2	80-120			
CS (B4L0908-BS2)				Prepared:	12/06/04	Analyzed	12/09/04			
esel Range Organics (C10-C24)	117	5.0	mg/kg	100		117	80-120			
LCS Dup (B4L0908-BSD1)				Prepared:	12/06/04	Analyzed	12/09/04			
esel Range Organics (C10-C24)	119	5.0	mg/kg	100		119	80-120	20.2	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Project: Bloomfield 2

Project Number: 205372005
Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

nelyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0706 - EPA 5035 P & T										

Bank (B4L0706-BLK1)				Prepared & Analyzed: 12/03/04
M enzene	ND	5.0	μg/kg	
Bromobenzene	ND	5.0		
	ND	5.0		
omodichloromethane	ND	5.0	•	
Bromoform	ND	5.0	•	
Promomethane	ND	5.0	•	
Butylbenzene	ND	5.0	•	
sec-Butylbenzene	ND	5.0	•	
tert-Butylbenzene	ND	5.0	•	
rbon tetrachloride	ND	5.0	-	
alorobenzene	ND	5.0	•	
Chloroethane	ND	5.0	•	
—loroform	ND	5.0		
loromethane	ND	5.0	•	
2-Chlorotoluene	ND	5.0		
Chlorotoluene	ND	5.0	•	
bromochloromethane	ND	5.0	•	
₱p-Dibromo-3-chioropropane	ND	5.0	•	
1,2-Dibromoethane (EDB)	ND	5.0	-	
romomethane	ND	5.0	•	
-Dichlorobenzene	ND	5.0		
1,3-Dichlorobenzene	ND	5.0	•	
-Dichlorobenzene	ND	5.0		
hlorodifluoromethane	ND	5.0	•	
1,1-Dichloroethane	ND	5.0	•	
2-Dichloroethane	ND	5.0	•	
-Dichloroethene	ND	5.0		
-1,2-Dichloroethene	ND	5.0		
trans-1,2-Dichloroethene	ND	5.0	"	
-Dichloropropane	ND	5.0	•	
-Dichloropropane	ND	5.0	•	
2,2-Dichloropropane	ND	5.0	•	
-Dichloropropene	ND	5.0	•	
1,3-Dichloropropene	ND	5.0	•	
trans-1,3-Dichloropropene	ND	5.0	•	
Ethylbenzene	ND	5.0	•	
xachlorobutadiene	ND	5.0	*	



Irvine CA, 92618

Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0706 - EPA 5035 P & T										
ank (B4L0706-BLK1)				Prepared a	& Analyze	d: 12/03/	04			
Sopropylbenzene	ND	5.0	μg/kg							
p-Isopropyltoluene	ND	5.0								
thylene chloride	ND	5.0								
ethyl tert-butyl ether	ND	5.0	*							
Naphthalene	ND	5.0								
Propyibenzene	ND	5.0	π-							
/теnе	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	•							
1,1,2,2-Tetrachloroethane	ND	5.0	•							
trachloroethene	ND	5.0	•							
Nuene	ND	5.0	•							
1,2,3-Trichlorobenzene	ND	5.0	•							
-,4-Trichlorobenzene	ND	5.0	•							
,1-Trichloroethane	ND	5.0	•							
1,1,2-Trichloroethane	ND	5.0	•							
Trichloroethene	ND	5.0	•							
chlorofluoromethane	ND	5.0								
3-Trichloropropane	ND	5.0	•							
1,2,4-Trimethylbenzene	ND	5.0								
,5-Trimethylbenzene	ND	5.0	#							
myl chloride	ND	5.0	•							
m,p-Xylene	ND	5.0								
Wylene	ND	5.0	•							
rogate: Dibromofluoromethane	50.2		*	50.0		100	80-120			
Surrogate: Toluene-d8	49.4		*	50.0		98.8	81-117			
mrogate: 4-Bromofluorobenzene	49.1		*	50.0		98.2	74-121			
CS (B4L0706-BS1)				Prepared	& Analyza	d: 12/03/	04			
Benzene	52.4	5.0	μg/kg	50.0		105	80-120			
orobenzene	54.4	5.0	•	50.0		109	80-120			
-Dichloroethene	42.7	5.0	**	50.0		85.4	80-120			
Toluene	50.9	5.0		50.0		102	80-120			
Techloroethene	53.1	5.0	•	50.0		106	80-120			



Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts Reported: 12/14/04 16:14

RPD

%REC

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Spike

Source

Reporting

inalyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B4L0706 - EPA 5035 P & T										
atrix Spike (B4L0706-MS1)	Sour	ce: 04 1205	7-12	Prepared:	12/03/04	Analyzed:	12/04/04			
Senzene	69.0	5.0	μ g/kg	50.0	ND	138	37-151			
Chlorobenzene	61.9	5.0	*	50.0	ND	124	37-160			
-Dichloroethene	53.0	5.0	*	50.0	ND	106	50-150			
luene	61.2	5.0		50.0	ND	122	47-150			
Trichloroethene	63.1	5.0	*	50.0	ND	126	71-157			
atrix Spike Dup (B4L0706-MSD1)	Sour	ce: 04 1205	7-12	Prepared:	12/03/04	Analyzed:	12/04/04			
Inzene	59.4	5.0	μg/kg	50.0	ND	119	37-151	15.0	30	
Chlorobenzene	54.4	5.0		50.0	ND	109	37-160	12.9	30	
-Dichloroethene	44.6	5.0	*	50.0	ND	89.2	50-150	17.2	30	
luenc	53.3	5.0	•	50.0	ND	107	47-150	13.8	30	
Trichloroethene	53.3	5.0	-	50.0	ND	107	71-157	16.8	30	



Project: Bloomfield 2
Number: 205372005

Spike

Source

Project Number: 205372005 Project Manager: Paul Roberts Reported: 12/14/04 16:14

RPD

%REC

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C-Quality Control

Sierra Analytical Labs, Inc.

Reporting

Malyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B4L0716 - EPA 3550B So	lid Ext									
nk (B4L0716-BLK1)				Prepared	& Analyza	d: 12/07/	04			
enaphthene	ND	0.33	mg/kg							
Acenaphthylene	ND	0.33								
hracene	ND	0.33	"							
zo (a) anthracene	ND	0.33								
Benzo (b) fluoranthene	ND	0.33	"							
Benzo (k) fluoranthene	ND	0.33	•							
nzo (a) pyrene	ND	0.33	*							
senzo (g,h,i) perylene	ND	0.33	*							
Chrysene	ND	0.33	*							
enz (a,h) anthracene	ND	0.33	*							
enzofuran	ND	0.33	п							
Fluoranthene	ND	0.33								
Corene	ND	0.33	*							
it eno (1,2,3-cd) pyrene	ND	0.33								
2-Methylnaphthalene	ND	0.33	•							
Naphthalene	ND	0.33	*							
nanthrene	ND	0.33	*							
Pytene	ND	0.33	*							
Surrogate: Nitrobenzene-d5	0.344		"	0.333		103	23-120			
rogate: 2-Fluorobiphenyl	0.333		"	0.333		1 0 0	30-115			
mrogate: Terphenyl-d14	0.340		"	0.333		102	18-137			
LCS (B4L0716-BS1)				Prepared	& Analyze	d: 12/07/	04			
naphthene	0.220	0.33	mg/kg	0.333		66.1	47-145			
yrene	0.218	0.33	*	0.333		65.5	52-115			
S (B4L0716-BS2)	*			Prepared:	12/07/04	Analyzed	l: 12/08/04			
naphthene	0.202	0.33	mg/kg	0.333		60.7	47-145			
утеле	0.227	0.33		0.333		68.2	52-115			
_										
THE SECOND SECON										
•										



Ninyo & Moore - Irvine

475 Goddard Suite 200 Irvine CA, 92618

alyte

Project: Bloomfield 2

Project Number: 205372005

Reported:

RPD

Limit

30

Project Manager: Paul Roberts

Reporting

Limit

0.33

Result

0.227

12/14/04 16:14

Notes

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C - Quality Control

Sierra Analytical Labs, Inc.

Spike

Level

0.333

Source

Result

%REC

68.2

%REC

Limits

52-115

RPD

Batch B4L0716 - EPA 3550B Solid 1	Ext								
CS Dup (B4L0716-BSD1)				Prepared &	Analyzed: 12/07/	04			
Acenaphthene	0.202	0.33	mg/kg	0.333	60.7	47-145	8.53	30	

Units



Irvine CA, 92618

Project: Bloomfield 2

Project Number: 205372005

Project Manager: Paul Roberts

Reported: 12/14/04 16:14

Notes and Definitions

OM-07

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

Surrogate diluted out.

S-03 DET

Analyte DETECTED

WD.

Analyte NOT DETECTED at or above the reporting limit

NR.

Not Reported

Sample results reported on a dry weight basis

Relative Percent Difference

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Signal Hill, CA 90755	Logged By:		Date:	_ FEDEX □	3. CONTAINER INTACT		
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	Container Types: T=Tub	e V=VOA	L=Liter P=Pint J=	Jar B=Tedlar G=Glass	P=Plastic M=Metal	Z=Zn(AC)2 O=NaOH T=Na ₂ S ₂ O	3

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06 January 2005

Paul Roberts Ninyo & Moore - Irvine 475 Goddard Suite 200 Irvine, CA 92618

RE:Bloomfield 2

Work Order No.: 0412057

Attached are the results of the analyses for samples received by the laboratory on 12/02/04 09:10.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report. If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth

Rehard & Front

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS), Environmental Laboratory Accredidation Program (ELAP) No. 2320.



Project: Bloomfield 2 Project Number: 205372005

Reported: 01/06/05 17:05

ANALYTICAL REPORT FOR SAMPLES

Project Manager: Paul Roberts

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P1-1-2.5	0412057-07	Soil	12/01/04 00:00	12/02/04 09:10
P1-2-2.5	0412057-08	Soil	12/01/04 00:00	12/02/04 09:10
P1-3-2	0412057-09	Soil	12/01/04 00:00	12/02/04 09:10
PI-4-1.5	0412057-10	Soil	12/01/04 00:00	12/02/04 09:10
P1-5-1.5	0412057-11	Soil	12/01/04 00:00	12/02/04 09:10
P1-6-1.5	0412057-12	Soil	12/01/04 00:00	12/02/04 09:10

CASE NARRATIVE

SAMPLE RECEIPT: PRESERVATION: HOLDING TIMES: QA/QC CRITERIA: Samples were received intact, at 4 °C, and accompanied by chain of custody documentation.

Samples requiring preservation were verified prior to sample preparation and analysis.

All holding times were met, unless otherwise noted in the report with data qualifiers.

All quality objective criteria were met, except as noted in the report with data qualifiers.



Project: Bloomfield 2

Project Number: 205372005 Project Manager: Paul Roberts Reported: 01/06/05 17:05

TCLP Metals by 6000/7000 Series Methods

		DICLEMAN							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P1-1-2.5 (0412057-07) Soil	Sampled: 12/01/04 00:00	Received: 12	/02/04 0	9:10					
n Lead	ND	0.13	mg/L	2	B5A0304	01/03/05	01/03/05	EPA 6010B	
P1-5-1.5 (0412057-11) Soil	Sampled: 12/01/04 00:00	Received: 12	/02/04 0	9:10					
Lead	ND	0.13	mg/L	2	B5A0304	01/03/05	01/03/05	EPA 6010B	
P1-6-1.5 (0412057-12) Soil	Sampled: 12/01/04 00:00	Received: 12	/02/04 0	9:10					
Lead	ND	0.13	mg/L	2	B5A0304	01/03/05	01/03/05	EPA 6010B	



Project: Bloomfield 2 Project Number: 205372005

Project Manager: Paul Roberts

Reported: 01/06/05 17:05

STLC Metals by EPA 6000/7000 Series Methods

		Sicila All							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
P1-1-2.5 (0412057-07) Soil	Sampled: 12/01/04 00:00	Received: 12	/02/04 0	9:10					
Copper Lead	56.2 4.82	0.42 0.32	mg/L	2	B5A0303	01/03/05	01/03/05	EPA 6010B	
P1-2-2.5 (0412057-08) Soil	Sampled: 12/01/04 00:00	Received: 12	/02/04 0	9:10					
Lead	1.93	0.32	mg/L	2	B5A0303	01/03/05	01/03/05	EPA 6010B	
P1-3-2 (0412057-09) Soil	Sampled: 12/01/04 00:00 F	Received: 12/0	2/04 09:	:10					
Lead	0.72	0.32	mg/L	2	B5A0303	01/03/05	01/03/05	EPA 6010B	
P1-4-1.5 (0412057-10) Soil	Sampled: 12/01/04 00:00	Received: 12	/02/04 0	9:10					
Lead	1.60	0.32	mg/L	2	B5A0303	01/03/05	01/03/05	EPA 6010B	
P1-5-1.5 (0412057-11) Soil	Sampled: 12/01/04 00:00	Received: 12	/02/04 0	9:10					
Lead	6.66	0.32	mg/L	2	B5A0303	01/03/05	01/03/05	EPA 6010B	
P1-6-1.5 (0412057-12) Soil	Sampled: 12/01/04 00:00	Received: 12	/02/04 0	9:10					
Lead	3.08	0.32	mg/L	2	B5A0303	01/03/05	01/03/05	EPA 6010B	



Project: Bloomfield 2

Project Manager: Paul Roberts

Project Number: 205372005

Reported: 01/06/05 17:05

TCLP Metals by 6000/7000 Series Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B5A0304 - EPA 3010A										
Blank (B5A0304-BLK1)				Prepared &	k Analyze	ed: 01/03/0	05			
Lead .	ND	0.13	mg/L							
LCS (B5A0304-BS1)				Prepared &	k Analyze	ed: 01/03/0	05			
Lead	0.19	0.13	mg/L	0.200		95.0	80-120			
Duplicate (B5A0304-DUP1)	Sou	rce: 041205	7-07	Prepared &	k Analyze	ed: 01/03/0	05			
Lead	ND	0.13	mg/L		ND				20	
Matrix Spike (B5A0304-MS1)	Sou	rce: 041205	7-07	Prepared &	k Analyze	ed: 01/03/0	05			
Lead	0.19	0.13	mg/L	0.200	ND	95.0	80-120			
•	~	0.44.00								
Matrix Spike Dup (B5A0304-MSD1)	Sou	rce: 041205	7-07	Prepared &	k Analyze	ed: 01/03/0	05			
Lead	0.20	0.13	mg/L	0.200	ND	100	80-120	5.13	20	



Project: Bloomfield 2 Project Number: 205372005

Project Manager: Paul Roberts

Reported: 01/06/05 17:05

STLC Metals by EPA 6000/7000 Series Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B5A0303 - EPA 3010A										
Blank (B5A0303-BLK1)				Prepared	& Analyz	ed: 01/03/	05			
Copper	ND	0.42	mg/L							
Lead	ND	0.32								
LCS (B5A0303-BS1)				Prepared	& Analyz	ed: 01/03/	05			
Соррег	1.75	0.42	mg/L	2.00		87.5	70-130			
Lead	1.75	0.32		2.00		87.5	80-120			
Duplicate (B5A0303-DUP1)	Sou	rce: 041205	7-07	Prepared	& Analyz	ed: 01/03/				
Copper	82.4	0.42	mg/L		56.2			37.8	20	QR-04
Lead	5.97	0.32	*		4.82			21.3	20	QR-02
Matrix Spike (B5A0303-MS1)	Sou	rce: 041205	7-07	Prepared	& Analyz	ed: 01/03/	05			
Соррег	53.3	0.42	mg/L	2.00	56.2	NR	75-125			QM-07
Lead	6.74	0.32	**	2.00	4.82	96.0	80-120			
■Matrix Spike Dup (B5A0303-MSD1)	Sou	Source: 0412057-07			& Analyz	ed: 01/03/				
Copper	58.5	0.42	mg/L	2.00	56.2	115	75-125	9.30	20	
Lead	6.70	0.32	•	2.00	4.82	94.0	80-120	0.595	20	



Project: Bloomfield 2

Project Number: 205372005

Reported: 01/06/05 17:05

Irvine CA, 92618

Project Manager: Paul Roberts

Notes and Definitions

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS OM-07

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QR-04 The RPD result exceeded the QC control limits; however, either the MS or MSD percent recovery was acceptable. Sample results for the QC batch were accepted based on percent recovery and completeness of QC data.

DET Analyte DETECTED

I ND Analyte NOT DETECTED at or above the reporting limit

سا NR Not Reported

RPD

an dry Sample results reported on a dry weight basis Relative Percent Difference

January 28, 2005



475 Goddard Suite 200

Irvine, CA 92618

TEL: (949) 697-2198

FAX: (949) 753-7071

Bloomfield II, 205372005

Attention: Paul Roberts

ELAP No.: 1838 NELAP No.: 02107CA

CSDLAC No.: 10196

Workorder No.: 073856

Enclosed are the results for sample(s) received on January 27, 2005 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez

Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

1 of 45

Advanced Technology Laboratories

CLIENT:

Ninyo & Moore

Project:

Bloomfield II, 205372005

Lab Order:

073856

CASE NARRATIVE

Date: 28-Jan-05

All volatile soil analyses were performed using 5035 preservation requirements. Any high level dilutions were performed on a preserved methanol sample unless otherwise noted.

Analytical Comments for EPA 8270

The following samples were diluted due to sample matrix:

073856-001G

073856-002G

073856-003G

073856-005G

073856-006G

Advanced Technology Laboratories

Date: 28-Jan-05

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H-Samples exceding holding time

CLIENT: Lab Order: Ninyo & Moore

073856

Bloomfield II, 205372005

Client Sample ID: T5-1-9 Collection Date: 1/27/2005

Project:

Lab ID: 073856-	001			Matrix:	SOII	_	
Analyte	Result	PQL	Qual Units)	DF	Date	Analyzed
ICP METALS							
	(EPA 3050B)		EPA 601	0B			
RuniD: iCP5_050128A	QC Batch:	21082		PrepDate:		1/27/2005	Analyst: RQ
Antimony	ND	1.0	mg/Kg		1		1/28/2005
Arsenic	ND	1.0	mg/Kg		1		1/28/2005
Barlum	170	1.0	mg/Kg		1		1/28/2005
Beryllium	ND	1.0	mg/Kg		1		1/28/2005
Cadmium	ND	1.0	mg/Kg		1		1/28/2005
Chromium	23	1.0	mg/Kg		1		1/28/2005
Cobalt	12	1.0	mg/Kg		1		1/28/2005
Copper	30	1.0	mg/Kg		1		1/28/2005
Lead	5.8	1.0	mg/Kg		1		1/28/2005
Molybdenum	1.6	1.0	mg/Kg		1		1/28/2005
Nickel	19	1.0	mg/Kg		1		1/28/2005
Selenium	ND	1.0	mg/Kg		1		1/28/2005
Silver	ND	1.0	mg/Kg		1		1/28/2005
Thallium	ND	1.0	mg/Kg		1		1/28/2005
Vanadium	38	1.0	mg/Kg		1		1/28/2005
Zinc	53	1.0	mg/Kg		1		1/28/2005
HYDROCARBON CHAIN I							
	(LUFT)		EPA 801	5B			
RunID: GC8_050127A	QC Batch:	21081		PrepDate:		1/27/2005	Analyst: CBR
T/R Hydrocarbons: >C32	1000	50	mg/Kg		5		1/28/2005
T/R Hydrocarbons: C10-C12	1200	50	mg/Kg		5		1/28/2005
T/R Hydrocarbons: C13-C15	2200	50	mg/Kg		5		1/28/2005
T/R Hydrocarbons: C16-C22	3800	50	mg/Kg		5		1/28/2005
T/R Hydrocarbons: C23-C32	3300	50	mg/Kg		5		1/28/2005
GASOLINE RANGE ORGA	NICS BY GC/FID						
			EPA 8015	B(M)			
RunID: GC2_050128A	QC Batch:	E05VS026		PrepDate:		1/27/2005	Analyst: JV
GRO	440	54	mg/Kg		50		1/28/2005
MERCURY BY COLD VAP	OR TECHNIQUE						
	(EPA 7471)		EPA 747	1A			
RuniD: AA1_050128A	QC Batch:	21084		PrepDate:		1/27/2005	Analyst: JT
Mercury	ND	0.10	mg/Kg		1		1/28/2005

Qualifiers:

3 of 45

Results are wet unless otherwise specified

ND - Not Detected at the Reporting Limit

DO - Surrogate Diluted Out

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

Page 1 of 24

CLIENT:

Ninyo & Moore

Lab Order:

073856

Project: Lab ID: Bloomfield II, 205372005

073856-001

Client Sample ID: T5-1-9

Date: 28-Jan-05

suche bumpie is. 15 15

Collection Date: 1/27/2005

Matrix: SOIL

EDA OSEAD

Analyte Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

		EPA 8260B						
RunID:	MS3_050127A	QC Batch:	R	05VS020		PrepDate:	1/27/2005	Analyst: JPC
1,1,1,2	2-Tetrachioroethane		ND	5.8	μg/Kg	1		1/27/2005
1,1,1-1	Frichloroethane		ND	5.8	μg/Kg	1		1/27/2005
1,1,2,2	?-Tetrachloroethane		ND	5.8	μg/Kg	1		1/27/2005
1,1,2-1	Frichloroethane		ND	5.8	μg/Kg	1		1/27/2005
1,1-Dic	chloroethane		ND	5.8	μg/Kg	1		1/27/2005
1,1-Dic	chloroethene		ND	5.8	μg/Kg	1		1/27/2005
1,1-Dic	chloropropene		ND	5.8	μg/Kg	1		1/27/2005
1,2,3-1	Frichlorobenzene		ND	5.8	μg/Kg	1		1/27/2005
1,2,3-7	Frichloropropane		ND	5.8	μg/Kg	1		1/27/2005
1,2,4-7	Frichlorobenzene		ND	5,8	µg/Kg	1		1/27/2005
1,2,4-1	rimethylbenzene		ND	5.8	μg/Kg	1		1/27/2005
1,2-Dit	oromo-3-chloropropane		ND	12	μg/Kg	1		1/27/2005
1,2-Dit	oromoethane		ND	5.8	μg/Kg	1		1/27/2005
1,2-Dic	chlorobenzene		ND	5.8	μg/Kg	1		1/27/2005
1,2-Dic	chloroethane		ND	5.8	μg/Kg	1		1/27/2005
1,2-Dic	chloropropane		ND	5.8	μg/Kg	1		1/27/2005
1,3,5-7	Frimethylbenzene		ND	5.8	μ g/K g	1		1/27/2005
1,3-Did	chiorobenzene		ND	5.8	μg/Kg	1		1/27/2005
1,3-Dic	chloropropane		ND	5.8	μg/Kg	1		1/27/2005
1,4-Dic	chtorobenzene		ND	5.8	μ g/K g	1		1/27/2005
2,2-Dic	chloropropane		ND	5.8	μg/Kg	1		1/27/2005
2-Chlo	rotoluene		ND	5.8	μ g /Kg	1		1/27/2005
4-Chlo	rotoluene		ND	5.8	μg/Kg	1		1/27/2005
4-Isopi	ropyltoluene		ND	5.8	μg/Kg	1		1/27/2005
Benze	ne .		ND	5.8	μg/Kg	1		1/27/2005
Bromo	benzene		ND	5.8	μg/Kg	1		1/27/2005
Bromo	dichloromethane		ND	5.8	μ g/K g	1		1/27/2005
Bromo	form		ND	5.8	μg/Kg	1		1/27/2005
Bromo	methane		ND	5.8	µ g/K g	1		1/27/2005
Carbor	n tetrachloride		ND	5.8	μ g/ Kg	1		1/27/2005
Chloro	benzene		ND	5.8	μg/Kg	1		1/27/2005
Chloro	ethane		ND	5.8	μg/Kg	1		1/27/2005
Chloro	form		ND	5.8	μg/Kg	i		1/27/2005
Chloro	methane		ND	5.8	µg/Kg	1		1/27/2005
cis-1,2	-Dichloroethene		ND	5.8	μg/Kg	1		1/27/2005
cis-1,3	-Dichloropropene		ND	5.8	μg/Kg	1		1/27/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

K - Ki D oliside acceptor recovery mane

E - Value above quantitation range H-Samples exceeding holding time

Page 2 of 24



CLIENT:

Ninyo & Moore

Lab Order:

073856

Project: Lab ID:

Bloomfield II, 205372005

Client Sample ID: T5-1-9

Collection Date: 1/27/2005

Date: 28-Jan-05

DF

Date Analyzed

073856-001

VOLATILE ORGANIC COMPOUNDS BY GC/MS

Matrix: SOIL

PQL Qual Units Analyte

Result

EPA 8260B

RunID:	MS3_050127A	QC Batch:	R05VS020		PrepDate:	1/27/2005 Analyst: JPC	;
Dibron	nochloromethane	. N	D 5.8	μg/Kg	1	1/27/2005	
Dibron	nomethane	N	D 5.8	μg/Kg	1	1/27/2005	
Dichlo	rodifluoromethane	N	D 5.8	μg/Kg	1	1/27/2005	
Ethylb	enzene	2	7 5.8	μg/Kg	1	1/27/2005	
Hexac	hlorobutadiene	N	D 5.8	μg/Kg	1	1/27/2005	
Isopro	pylbenzene	14	0 5.8	μg/Kg	1	1/27/2005	
m,p-X	ylene	N	D 5.8	μg/Kg	1	1/27/2005	
Methyl	lene chloride	N	D 5.8	μg/Kg	1	1/27/2005	
n-Buty	lbenzene	3	8 5.8	μg/Kg	1	1/27/2005	
n-Prop	ylbenzene	23	0 5.8	μg/Kg	1	1/27/2005	
Napht	halene	1600	0 580	μg/Kg	100	1/28/2005	
o-Xyle	ne	N	D 5.8	μg/Kg	1	1/27/2005	
sec-Bi	utylbenzene	11	0 5.8	μg/Kg	1	1/27/2005	
Styren	e	N	D 5.8	µд∕Кд	1	1/27/2005	
tert-Bu	ıtylbenzene	N	D 5.8	μg/Kg	1	1/27/2005	
Tetrac	hloroethene	N	D 5.8	μg/Kg	1	1/27/2005	
Toluer	ne	N	D 5.8	μg/Kg	1	1/27/2005	
trans-	1,2-Dichloroethene	N	D 5.8	μg/Kg	1	1/27/2005	
Trichlo	proethene	N	D 5.8	μg/Kg	1	1/27/2005	
Trichlo	orofluoromethane	N	D 5.8	μg/Kg	1	1/27/2005	
Vinyl o	chloride	N	D 5.8	μg/Kg	1	1/27/2005	

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

(EPA 3550B)

EPA 8270C

	(=: :: : : : : : : : : : : : : : : : : :				
RuniD: MS6_050127B	QC Batch:	21085	Pre	pDate: 1/2	7/2005 Analyst: JWS
2-Methylnaphthalene	5300	16000	μg/Kg	50	1/28/2005
Acenaphthene	NI	16000	μg/Kg	50	1/28/2005
Acenaphthylene	N	16000	μg/Kg	50	1/28/2005
Anthracene	NE	16000	μg/Kg	50	1/28/2005
Benzo(a)anthracene	N	16000	μ g/Kg	50	1/28/2005
Benzo(a)pyrene	NI	16000	μg/Kg	50	1/28/2005
Benzo(b)fluoranthene	N	16000	μg/Kg	50	1/28/2005
Benzo(g,h,i)perylene	N	16000	μg/Kg	50	1/28/2005
Benzo(k)fluoranthene	N	16000	μg/Kg	50	1/28/2005
Chrysene	N	16000	μg/Kg	50	1/28/2005
Dibenz(a,h)anthracene	N	16000	μg/Kg	50	1/28/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitization limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

E - Value above quantitation range H-Samples exceding holding time

Page 3 of 24



Date: 28-Jan-05

CLIENT:

Ninyo & Moore

Client Sample ID: T5-1-9

Lab Order:

073856

Project: Lab ID: Bloomfield II, 205372005 073856-001

Collection Date: 1/27/2005 Matrix: SOIL

Analyte Result		PQL (ual Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC			EPA 8270C		
RuniD: MS6 050127B	(EPA 3550B) QC Batch: 21085			pDate:	1/27/2005 Analyst: JWS
Fluoranthene	ND	16000	μg/Kg	50	1/28/2005
Fluorene	ND	16000	μg/Kg μg/Kg	50	1/28/2005
Indeno(1,2,3-cd)pyrene	ND	16000	μg/Kg	50	1/28/2005
Naphthalene	17000	16000	μg/Kg	50	1/28/2005
Phenanthrene	ND	16000	μg/Kg	50	1/28/2005
Pyrene	ND	16000	μg/Kg	50	1/28/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range H-Samples exceding holding time

Page 4 of 24



CLIENT:

Ninyo & Moore

Lab Order:

073856

Project: Lab ID: Bloomfield II, 205372005

073856-002

Date: 28-Jan-05

1/28/2005

Client Sample ID: T5-2-9

Collection Date: 1/27/2005

Matrix: SOIL

Analyte	Result	PQL Qual Units	DF	Date Analyzed
			-	

ICP METALS							
	(EPA 3050B)			EPA 6010B			
RunID: ICP5_050128A	QC Batch:	21082	:	Prep	Date:	1/27/2005	Analyst: RQ
Antimony	1	ND	1.0	mg/Kg	1		1/28/2005
Arsenic	1	ND	1.0	mg/Kg	1		1/28/2005
Barium	1	20	1.0	mg/Kg	1		1/28/2005
Beryllium	1	ND	1.0	mg/Kg	1		1/28/2005
Cadmium	1	ND	1.0	mg/Kg	1		1/28/2005
Chromium		18	1.0	mg/Kg	1		1/28/2005
Cobalt		10	1.0	mg/Kg	1		1/28/2005
Copper		22	1.0	mg/Kg	1		1/28/2005
Lead	:	5.9	1.0	mg/Kg	1		1/28/2005
Molybdenum		1.3	1.0	mg/Kg	1		1/28/2005
Nickel		16	1.0	mg/Kg	1		1/28/2005
Selenium	1	ND	1.0	mg/Kg	1		1/28/2005
Silver	1	ND	1.0	mg/Kg	1		1/28/2005
Thallium	1	ND	1.0	mg/Kg	1		1/28/2005
Vanadium		30	1.0	ma/Ka	1		1/28/2005

HYDROCARBON CHAIN IDENTIFICATION

		(LU	JF	T,)

mg/Kg **EPA 8015B**

RunID: GC8_050127A	QC Batch: 21081		PrepDate:	1/27/2005	Analyst: CBR
T/R Hydrocarbons: >C32	1500	50	mg/Kg 5		1/28/2005
T/R Hydrocarbons: C10-C12	1700	50	mg/Kg 5		1/28/2005
T/R Hydrocarbons: C13-C15	2800	50	mg/Kg 5		1/28/2005
T/R Hydrocarbons: C16-C22	4900	50	mg/Kg 5		1/28/2005
T/R Hydrocarbons: C23-C32	4600	50	mg/Kg 5		1/28/2005

1.0

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID:	GC2_050128A	QC Batch:	E05VS026		PrepDate	e:	1/27/2005	Analyst: JV
GRO		4	.5	1.2	mg/Kg	1		1/28/2005

MERCURY BY COLD VAPOR TECHNIQUE

(EPA 7471)

EPA 7471A

RunID:	AA1_050128A	QC Batch:	21084		PrepDate:		1/27/2005	Analyst: JT	
Mercur	v		ND	0.10	ma/Ka	1		1/28/2005	

Oualifiers:

Zinc

- ND Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 - J Analyte detected below quantitization limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank E - Value above quantitation range
 - Page 5 of 24 DO - Surrogate Diluted Out H-Samples exceding holding time



Ninyo & Moore

Lab Order: 073856

RunID: MS3_050127A

Project: Lab ID:

CLIENT:

Bloomfield II, 205372005

QC Batch:

073856-002

Date: 28-Jan-05

1/27/2005 Analyst: JPC

Client Sample ID: T5-2-9

Collection Date: 1/27/2005

Matrix: SOIL

PrepDate:

Analyte Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

E	P	Α	8	2	6	0	В

1,1,1,2-Tetrachloroethane	ND	5.2	μg/Kg	1	1/27/2005
1,1,1-Trichloroethane	ND	5.2	μg/Kg	1	1/27/2005
1,1,2,2-Tetrachloroethane	ND	5.2	μ g/ Kg	1	1/27/2005
1,1,2-Trichloroethane	ND	5.2	μ g/K g	1	1/27/2005
1,1-Dichloroethane	ND	5.2	μg/Kg	1	1/27/2005
1,1-Dichloroethene	ND	5.2	μg/Kg	1	1/27/2005
1,1-Dichloropropene	ND	5.2	μg/Kg	1	1/27/2005
1,2,3-Trichlorobenzene	ND	5.2	μ g /Kg	1	1/27/2005
1,2,3-Trichloropropane	ND	5.2	μg/Kg	1	1/27/2005
1,2,4-Trichlorobenzene	ND	5.2	μg/Kg	1	1/27/2005
1,2,4-Trimethylbenzene	170	5.2	μg/Kg	1	1/27/2005
1,2-Dibromo-3-chloropropane	ND	10	μg/Kg	1	1/27/2005
1,2-Dibromoethane	ND	5.2	μg/Kg	1	1/27/2005
1,2-Dichlorobenzene	ND	5.2	μ g /Kg	1	1/27/2005
1,2-Dichloroethane	ND	5.2	μg/Kg	1	1/27/2005
1,2-Dichloropropane	ND	5.2	μg/Kg	1	1/27/2005
1,3,5-Trimethylbenzene	ND	5.2	μg/Kg	1	1/27/2005
1,3-Dichlorobenzene	ND	5.2	μ g/K g	1	1/27/2005
1,3-Dichloropropane	ND	5.2	μ g/ Kg	1	1/27/2005
1,4-Dichlorobenzene	ND	5.2	μg/Kg	1	1/27/2005
2,2-Dichloropropane	ND	5.2	μg/Kg	1	1/27/2005
2-Chlorotoluene	ND	5.2	μg/Kg	1	1/27/2005
4-Chlorotoluene	ND	5.2	μg/Kg	1	1/27/2005
4-Isopropyltoluene	45	5.2	μg/Kg	1	1/27/2005
Benzene	ND	5.2	μg/Kg	1	1/27/2005
Bromobenzene	ND	5.2	μg/Kg	1	1/27/2005
Bromodichloromethane	ND	5.2	μ g/ Kg	1	1/27/2005
Bromoform	МD	5.2	μg/Kg	1	1/27/2005
Bromomethane	ND	5.2	μg/Kg	1	1/27/2005
Carbon tetrachloride	ND	5.2	μg/Kg	1	1/27/2005
Chlorobenzene	ND	5.2	μ g/K g	1	1/27/2005
Chloroethane	ND	5.2	μg/Kg	1	1/27/2005
Chloroform	ND	5.2	μg/Kg	i	1/27/2005
Chloromethane	ND	5.2	μg/Kg	1	1/27/2005
cls-1,2-Dichloroethene	ND	5.2	μg/Kg	1	1/27/2005
cis-1,3-Dichloropropene	ND	5.2	μg/Kg	1	1/27/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitiation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits E - Value above quantitation range

Page 6 of 24

H-Samples exceding holding time



Date: 28-Jan-05

DF

Date Analyzed

CLIENT:

Ninyo & Moore

POL Qual Units

Client Sample ID: T5-2-9

Lab Order:

073856

Project:

Bloomfield II, 205372005

Result

Collection Date: 1/27/2005

Lab ID: Analyte

073856-002

Matrix: SOIL

VOI	ATH	=	OPG	ANIC	CO	up∩	HINDS	RV	GC/N	21

EPA 8260B

RunID:	MS3_050127A	QC Batch:	R05VS020		PrepDate: 1	/27/2005 Analyst: JPC
Dibron	nochloromethane	N	5.2	μg/Kg	1	1/27/2005
Dibron	nomethane	N	5.2	μg/Kg	1	1/27/2005
Dichlo	rodifluoromethane	N	5.2	μg/Kg	1	1/27/2005
Ethylb	enzene	11	5.2	μg/Kg	1	1/27/2005
Hexac	hlorobutadiene	N	5.2	µg/Kg	1	1/27/2005
Isopro	pylbenzene	26	0 5.2	μg/Kg	1	1/27/2005
m,p-X	dene	N	5.2	μ g/K g	1	1/27/2005
Methy	ene chloride	N	5.2	µg/Kg	1	1/27/2005
n-Buty	lbenzene	5	8 5.2	μ 9/ Kg	1	1/27/2005
n-Prop	ylbenzene	720	0 2600	μg/Kg	500	1/28/2005
Napht	nalene	2800	0 2600	μg/Kg	500	1/28/2005
o-Xyle	ne	N	5.2	μg/Kg	1	1/27/2005
sec-Br	utylbenzene	18	0 5.2	µд∕Кд	1	1/27/2005
Styren	e	NI	5.2	μ g/K g	1	1/27/2005
tert-Bu	itylbenzene	NI	5.2	μ g/K g	1	1/27/2005
Tetrac	hloroethene	N	5.2	µ g/Кg	1	1/27/2005
Toluer	ne	Ni	5.2	µg/Kg	1	1/27/2005
trans-	,2-Dichloroethene	N	D 5.2	µд∕Кд	1	1/27/2005
Trichle	roethene	NI	D 5.2	µд∕Кд	1	1/27/2005
Trichle	rofluoromethane	NI	5.2	µg/Кg	1	1/27/2005
Vinyl o	hloride	Ni	5.2	µд∕Кд	1	1/27/2005

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

(EPA 3550B)

EPA 8270C

RunID:	MS6_050127B	QC Batch:	21085			PrepDate:	1/27/2005	Analyst: JWS
2-Meth	ylnaphthalene	600	00	16000	μ g/Kg	50		1/28/2005
Acena	phthene		ID.	16000	µg/Kg	50		1/28/2005
Acena	phthylene	1	4D	16000	μg/Kg	50		1/28/2005
Anthra	cene	1	1D	16000	μg/Kg	50		1/28/2005
Benzo((a)anthracene	N	1D	16000	μg/Kg	50		1/28/2005
Benzo((a)pyrene	1	1D	16000	μg/Kg	50		1/28/2005
Benzo((b)fluoranthene		ND	16000	μg/Kg	50		1/28/2005
Benzo((g,h,i)perylene		ND	16000	μ д /Кд	50		1/28/2005
Benzo((k)fluoranthene	1	I D	16000	μg/Kg	50		1/28/2005
Chryse	ene		1D	16000	µ д∕К д	50		1/28/2005
Dibenz	c(a,h)anthracene		1D	16000	μg/Kg	50		1/28/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

DO - Surrogate Diluted Out

H-Samples exceding holding time

Page 7 of 24



Date: 28-Jan-05

DF

Date Analyzed

CLIENT:

Ninyo & Moore

Client Sample ID: T5-2-9

Lab Order:

073856

Project:

Bloomfield II, 205372005

Collection Date: 1/27/2005

Lab ID: Analyte

073856-002

Result

Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS (EPA 3550B) EPA 8270C										
	,,	(EPA 3550B)		EPA 827	7.					
RunID: MS6_050127B	QC Batch:	21085			PrepDate:	1/27/2005	Analyst: JWS			
Fluoranthene	•	ND.	16000	μg/Kg	50		1/28/2005			
Fluorene	1	ND.	16000	μg/Kg	50		1/28/2005			
Indeno(1,2,3-cd)pyrene	1	√ D	16000	µg/Кg	50		1/28/2005			
Naphthalene	220	00	16000	μg/Kg	50		1/28/2005			
Phenanthrene	•	ND	16000	μg/Kg	50		1/28/2005			
Pyrana		ND.	16000	ug/Kg	50		1/28/2005			

PQL Qual Units

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Results are wet unless otherwise specified

H-Samples exceding holding time

Page 8 of 24



10 of 45

PQL Qual Units

Date: 28-Jan-05

DF

Date Analyzed

1/28/2005

CLIENT:

Ninyo & Moore

Client Sample ID: T6-1-2

Lab Order:

073856

Bloomfield II, 205372005

Result

Project: Lab ID:

073856-003

Collection Date: 1/27/2005 Matrix: SOIL

Analyte

Zinc

ICD M	ETALS

	(EPA 3050B)		EPA 6010B			
RunID: ICP5_050128A	QC Batch:	21082	Pre	pDate:	1/27/2005	Analyst: RQ
Antimony	N	D 1.0	mg/Kg	1		1/28/2005
Arsenic	N	D 1.0	mg/Kg	1		1/28/2005
Barium	. 17	0 1.0	mg/Kg	1		1/28/2005
Beryllium	N	D 1.0	mg/Kg	1		1/28/2005
Cadmium	N	D 1.0	mg/Kg	1		1/28/2005
Chromium	1	8 1.0	mg/Kg	1		1/28/2005
Cobalt	9.	6 1.0	mg/Kg	1		1/28/2005
Copper	1	9 1.0	mg/Kg	1		1/28/2005
Lead	1	4 1.0	mg/Kg	1		1/28/2005
Molybdenum	N	D 1.0	mg/Kg	1		1/28/2005
Nickel	1	4 1.0	mg/Kg	1		1/28/2005
Selenium	N	D 1.0	mg/Kg	1		1/28/2005
Silver	N	D 1.0	mg/Kg	1		1/28/2005
Thallium	N	D 1.0	mg/Kg	1		1/28/2005
Vanadium	3	1.0	m g/K g	1		1/28/2005

HYDROCARBON CHAIN IDENTIFICATION

RunID: GC8_050127A	QC Batch: 21081		PrepDate:	1/27/2005	Analyst: CBR
T/R Hydrocarbons: >C32	140	10	mg/Kg 1		1/28/2005
T/R Hydrocarbons: C10-C12	ND	10	mg/Kg 1		1/28/2005
T/R Hydrocarbons: C13-C15	ND	10	mg/Kg 1		1/28/2005
T/R Hydrocarbons: C16-C22	83	10	mg/Kg 1		1/28/2005
T/P Hydrocarbons: C23_C32	300	10	malKa 1		1/28/2005

1.0

37

(LUFT)

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

mg/Kg

EPA 8015B

RunID:	GC2_050127A	QC Batch:	E05VS025		Pr	repDate:	1/27/2005	Analyst: JV
GRO		1	ND	1.2	mg/Kg	1		1/27/2005

MERCURY BY COLD VAPOR TECHNIQUE

(EPA 7471)	EPA 7471A
------------	-----------

RunID:	AA1_050128A	QC Batch:	21084		PrepDate:		1/27/2005	Analyst: JT
Mercur	у		ND	0.10	mg/Kg	1		1/28/2005

Qualiflers:

- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- DO Surrogate Diluted Out
- Page 9 of 24 H-Samples exceding holding time



Date: 28-Jan-05

CLIENT:

Ninvo & Moore

Client Sample ID: T6-1-2

Lab Order:

073856

Project:

Bloomfield II, 205372005

Collection Date: 1/27/2005

PrepDate:

Lab ID:

073856-003

Matrix: SOIL

Analyte

Result

R05VS021

QC Batch:

Date Analyzed

1/27/2005 Analyst: JPC

RuniD: MS3 050128A

PQL Qual Units DF

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

1,1,1,2-Tetrachloroethane	ND	5.7	μg/Kg	1	1/28/2005
1,1,1-Trichloroethane	ND	5.7	μg/Kg	1	1/28/2005
1,1,2,2-Tetrachloroethane	ND	5.7	μg/Kg	1	1/28/2005
1,1,2-Trichloroethane	ND	5.7	μg/Kg	1	1/28/2005
1,1-Dichloroethane	ND	5.7	μg/Kg	1	1/28/2005
1,1-Dichloroethene	ND	5.7	μ g/ Kg	1	1/28/2005
1,1-Dichloropropene	ND	5.7	μg/Kg	1	1/28/2005
1,2,3-Trichlorobenzene	ND	5.7	μg/Kg	1	1/28/2005
1,2,3-Trichloropropane	ND	5.7	µg/Kg	1	1/28/2005
1,2,4-Trichiorobenzene	ND	5.7	μg/Kg	1	1/28/2005
1,2,4-Trimethylbenzene	ND	5.7	μg/Kg	1	1/28/2005
1,2-Dibromo-3-chloropropane	ND	11	µg/Кg	1	1/28/2005
1,2-Dibromoethane	ND	5.7	μg/Kg	1	1/28/2005
1,2-Dichlorobenzene	ND	5.7	μg/Kg	1	1/28/2005
1,2-Dichloroethane	ND	5.7	μg/Kg	1	1/28/2005
1,2-Dichloropropane	ND	5.7	μg/Kg	1	1/28/2005
1,3,5-Trimethylbenzene	ND	5.7	μ g/ Kg	1	1/28/2005
1,3-Dichlorobenzene	ND	5.7	μg/Kg	1	1/28/2005
1,3-Dichloropropane	ND	5.7	μg/Kg	1	1/28/2005
1,4-Dichlorobenzene	ND	5.7	μg/Kg	1	1/28/2005
2,2-Dichloropropane	ND	5.7	μg/Kg	1	1/28/2005
2-Chlorotoluene	ND	5.7	μg/Kg	1	1/28/2005
4-Chlorotoluene	ND	5.7	μg/Kg	1	1/28/2005
4-isopropyltoluene	ND	5.7	μg/Kg	1	1/28/2005
Benzene	ND	5.7	μg/Kg	.1	1/28/2005
Bromobenzene	ND	5.7	µg/Кд	1	1/28/2005
Bromodichloromethane	ND	5.7	μg/Kg	1	1/28/2005
Bromoform	ND	5.7	μg/Kg	1	1/28/2005
Bromomethane	ND	5.7	μg/Kg	1	1/28/2005
Carbon tetrachloride	ND	5.7	μg/Kg	1	1/28/2005
Chlorobenzene	ND	5.7	μg/Kg	1	1/28/2005
Chloroethane	ND	5.7	μg/Kg	1	1/28/2005
Chloroform	ND	5.7	μg/Kg	1	1/28/2005
Chloromethane	ND	5.7	μg/Kg	1	1/28/2005
cis-1,2-Dichloroethene	ND	5.7	μg/Kg	1	1/28/2005
cis-1,3-Dichloropropene	ND	5.7	μg/Kg	1	1/28/2005
· ·					

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quanititation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

DO - Surrogate Diluted Out

H-Samples exceding holding time

Page 10 of 24

CLIENT: Ninyo & Moore

Client Sample ID: T6-1-2

Lab Order: 073856

Project: Bloomfield II, 205372005

Collection Date: 1/27/2005 Matrix: SOIL Lab ID: 073856-003

Result PQL Qual Units DF Analyte Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

Date: 28-Jan-05

RunID: MS	3_050128A	QC Batch:	R05	VS021	Pre	pDate:	1/27/2005	Analyst: JPC
Dibromochlo	oromethane	+	ND	5.7	μg/Kg	1		1/28/2005
Dibromome	thane	1	ND	5.7	μg/Kg	1		1/28/2005
Dichlorodift	uoromethane	1	ND	5.7	μg/Kg	1		1/28/2005
Ethylbenzer	16	1	ND	5.7	μg/Kg	1		1/28/2005
Hexachlorol	outadiene	1	ND	5.7	μg/Kg	1		1/28/2005
Isopropylbe	nzene		ND	5.7	μg/Kg	1		1/28/2005
m,p-Xylene			ND	5.7	μ g /Kg	1		1/28/2005
Methylene o	thloride	1	ND	5.7	μg/Kg	1		1/28/2005
n-Butylbenz	ene	1	ND	5.7	μg/Kg	1		1/28/2005
n-Propylben	zene		ND	5.7	μg/Kg	1		1/28/2005
Naphthalen	е	1	ND	5.7	μ g/ Kg	1		1/28/2005
o-Xylene			ND	5.7	μ g/ Kg	1		1/28/2005
sec-Butylbe	nzene		ND	5.7	μ g/ Kg	1		1/28/2005
Styrene			ND	5.7	μg/Kg	1		1/28/2005
tert-Butylbe	nzene		ND	5.7	μg/Kg	1		1/28/2005
Tetrachloro	ethene		ND	5.7	μg/Kg	1		1/28/2005
Toluene			ND	5.7	μg/Kg	1		1/28/2005
trans-1,2-Di	ichloroethene		D	5.7	μ g/K g	1		1/28/2005
Trichloroeth	ene		ND	5.7	μg/Kg	1		1/28/2005
Trichlorofluc	oromethane		ND	5.7	μ g/Kg	1		1/28/2005
Vinyl chlorid	ie		ND	5.7	μg/Kg	1		1/28/2005

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS (EPA 3550B)

RuniD: MS	S6_050127B	QC Batch:	210	185	P	repDate:	1/27/2005	Analyst: JWS
2-Methylna	aphthalene		ND	3300	μg/Kg	10		1/28/2005
Acenaphth	iene		ND	3300	μg/Kg	10		1/28/2005
Acenaphth	ylene		ND	3300	μg/Kg	10		1/28/2005
Anthracen	е		ND	3300	μ g/ Kg	10		1/28/2005
Benzo(a)a	nthracene		ND	3300	μg/Kg	10		1/28/2005
Benzo(a)p	yrene		ND	3300	μ g/ Kg	10		1/28/2005
Benzo(b)fl	uoranthene		ND	3300	μ g /Kg	10		1/28/2005
Benzo(g,h	i)perylene		ND	3300	μ g /Kg	10		1/28/2005
Benzo(k)fic	uoranthene		ND	3300	μg/Kg	10		1/28/2005
Chrysene			ND	3300	µg/Kg	10		1/28/2005
Dibenz(a,h	n)anthracene		ND	3300	μ g/K g	10		1/28/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

EPA 8270C

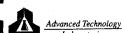
J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits E - Value above quantitation range

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out H-Samples exceding holding time

Page 11 of 24



CLIENT:

Ninyo & Moore

Client Sample ID: T6-1-2

Date: 28-Jan-05

DF

Date Analyzed

Lab Order:

073856

Project:

Bloomfield II, 205372005

Collection Date: 1/27/2005

Lab ID: Analyte 073856-003

Matrix: SOIL

OF MIN	SEMIYOLATILE ORGANIC COMPOUNDS BY GC/MS									
SEMIA	OLATILE ONGANIC	(EPA 3550B)	oC/MS		EPA 827	70C				
RunID:	MS6_050127B	QC Batch:	2108	5		PrepDate:	1/27/2005	Analyst: JWS		
Fluora	inthene		ND	3300	μg/Kg	10		1/28/2005		
Fluore	ene		ND	3300	μg/Kg	10		1/28/2005		
inden	o(1,2,3-cd)pyrene		ND	3300	μ g/ Kg	10		1/28/2005		
Napht	halene		ND	3300	μg/Kg	10		1/28/2005		
Phena	anthrene		ND	3300	μg/Kg	10		1/28/2005		
Pyren	е		ND	3300	μg/Kg	10		1/28/2005		

PQL Qual Units

Result

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank

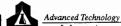
DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range H-Samples exceding holding time

Page 12 of 24



Date: 28-Jan-05

DF

Date Analyzed

CLIENT:

Ninyo & Moore

Client Sample ID: T6-2-2

Lab Order:

073856

Project:

Bloomfield II, 205372005

Collection Date: 1/27/2005

PQL Qual Units

Lab ID: Analyte 073856-004

Matrix: SOIL

100	 •

ICP METALS						
	(EPA 3050B)		EPA 6010B			
RunID: ICP5_050128A	QC Batch: 21082		PrepDate	e :	1/27/2005	Analyst: RQ
Antimony	ND	1.0	mg/Kg	1		1/28/2005
Arsenic	ND	1.0	mg/Kg	1		1/28/2005
Barium	120	1.0	mg/Kg	1		1/28/2005
Beryllium	ND	1.0	mg/Kg	1		1/28/2005
Cadmium	ND	1.0	mg/Kg	1		1/28/2005
Chromium	23	1.0	mg/Kg	1		1/28/2005
Cobalt	11	1.0	mg/Kg	1		1/28/2005
Copper	21	1.0	mg/Kg	1		1/28/2005
Lead	5.7	1.0	mg/Kg	1		1/28/2005
Molybdenum	ND	1.0	mg/Kg	1		1/28/2005
Nickei	16	1.0	mg/Kg	1		1/28/2005
Selenium	ND	1.0	mg/Kg	1		1/28/2005
Silver	ND	1.0	mg/Kg	1		1/28/2005
Thallium	ND	1.0	mg/Kg	1		1/28/2005
Vanadium	39	1.0	mg/Kg	1		1/28/2005
Zinc	46	1.0	ma/Ka	1		1/28/2005

Result

HYDROCARBON CHAIN IDENTIFICATION

RuniD: GC8_050127A	QC Batch: 21081		PrepDate:	1/27/2005 Analyst: CBR
T/R Hydrocarbons: >C32	10	10	mg/Kg 1	1/28/2005
T/R Hydrocarbons: C10-C12	ND	10	mg/Kg 1	1/28/2005
T/R Hydrocarbons: C13-C15	ND	10	mg/Kg 1	1/28/2005
T/R Hydrocarbons: C16-C22	15	10	mg/Kg 1	1/28/2005
T/R Hydrocarbons: C23-C32	22	10	ma/Ka 1	1/28/2005

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

EPA 8015B

RunID:	GC2_050127A	QC Batch:	E05VS025	i	PrepDate:		1/27/2005	Analyst: JV
GRO		N	D	1.3	mg/Kg	1		1/27/2005

MERCURY BY COLD VAPOR TECHNIQUE

(EPA 7471)

(LUFT)

EPA 7471A

RunID:	AA1_050128A	QC Batch:	21084		PrepDate		1/27/2005	Analyst: JT	
Mercur	ry	N	ID	0.10	mg/Kg	1		1/28/2005	

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

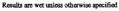
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range Page 13 of 24

DO - Surrogate Diluted Out

H-Samples exceding holding time



CLIENT:

Ninyo & Moore

Client Sample ID: T6-2-2

Lab Order:

073856

Project:

Bloomfield II, 205372005

Collection Date: 1/27/2005

PrepDate:

Lab ID:

073856-004

Matrix: SOIL

Date: 28-Jan-05

Analyte

1.1.1.2-Tetrachloroethane

Result

PQL Qual Units

EPA 8260B

иа/Ка

Date Analyzed

Analyst: JPC

1/28/2005

1/27/2005

VOLATILE ORGANIC COMPOUNDS BY GC/MS

RunID:	MS3_050128A	QC Batch:	R05VS021	

ND

1,1,1,2-16020110106011010	NU	0.0	hand.	4	1/20/2003
1,1,1-Trichloroethane	ND	6.6	μ g /Kg	1	1/28/2005
1,1,2,2-Tetrachloroethane	ND	6.6	μ g /Kg	1	1/28/2005
1,1,2-Trichloroethane	ND	6.6	μ g /Kg	1	1/28/2005
1,1-Dichloroethane	ND	6.6	μ g /Kg	1	1/28/2005
1,1-Dichloroethene	ND	6.6	μg/Kg	1	1/28/2005
1,1-Dichloropropene	ND	6.6	μg/Kg	1	1/28/2005
1,2,3-Trichlorobenzene	ND	6.6	µg/Kg	1	1/28/2005
1,2,3-Trichloropropane	ND	6.6	µ g /Кg	1	1/28/2005
1,2,4-Trichlorobenzene	ND	6.6	µg/Кg	1	1/28/2005
1,2,4-Trimethylbenzene	ND	6.6	μg/Kg	1	1/28/2005
1,2-Dibromo-3-chloropropane	ND	13	μ g /Kg	1	1/28/2005
1,2-Dibromoethane	ND	6.6	μ g /Kg	1	1/28/2005
1,2-Dichlorobenzene	ND	6.6	μg/Kg	1	1/28/2005
1,2-Dichloroethane	ND	6.6	μ g /Kg	1	1/28/2005
1,2-Dichloropropane	ND	6.6	µg/Кg	1	1/28/2005
1,3,5-Trimethylbenzene	ND	6.6	μg/Kg	1	1/28/2005
1,3-Dichlorobenzene	ND	6.6	µg/Кg	1	1/28/2005
1,3-Dichloropropane	ND -	6.6	µg/Кg	1	1/28/2005
1,4-Dichlorobenzene	ND	6.6	μg/Kg	1	1/28/2005
2,2-Dichloropropane	ND	6.6	μ g/K g	1	1/28/2005
2-Chlorotoluene	ND	6.6	μ g/ Kg	1	1/28/2005
4-Chlorotoluene	ND	6.6	µg/Кg	1	1/28/2005
4-Isopropyltoluene	ND	6.6	μg/Kg	1	1/28/2005
Benzene	ND	6.6	μ g /Kg	1	1/28/2005
Bromobenzene	ND	6.6	μ g /Kg	1	1/28/2005
Bromodichloromethane	ND	6.6	μ g /Kg	1	1/28/2005
Bromoform	ND	6.6	μg/Kg	1	1/28/2005
Bromomethane	ND	6.6	μg/Kg	1	1/28/2005
Carbon tetrachloride	ND	6.6	μg/Kg	1	1/28/2005
Chlorobenzene	ND	6.6	µg∕Кg	1	1/28/2005
Chloroethane	ND	6.6	μ g /Kg	1	1/28/2005
Chloroform	ND	6.6	µg∕Кg	1	1/28/2005
Chloromethane	ND	6.6	μg/Kg	1	1/28/2005
cis-1,2-Dichloroethene	ND	6.6	µg/Кg	1	1/28/2005
cis-1,3-Dichloropropene	ND	6.6	μ g/K g	1	1/28/2005

Oualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantititation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

DO - Surrogate Diluted Out

Page 14 of 24 H-Samples exceding holding time

Ninyo & Moore 073856

Lab Order:

Bloomfield II, 205372005

Lab ID:

CLIENT:

Project:

073856-004

Date: 28-Jan-05

Client Sample ID: T6-2-2

Collection Date: 1/27/2005

Matrix: SOIL

DF Analyte Result PQL Qual Units Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

Runi0:	MS3_050128A	QC Batch:	R05VS021		PrepDate:	1/27/2005	Analyst: JPC
Dibror	nochloromethane	N	6.6	μg/Kg	1		1/28/2005
Dibror	nomethane	N	6.6	μg/Kg	1		1/28/2005
Dichlo	rodifluoromethane	N	6.6	μg/Kg	1		1/28/2005
Ethylb	enzene	N	6.6	μg/Kg	1		1/28/2005
Hexad	hlorobutadiene	N	6.6	μg/Kg	1		1/28/2005
Isopro	pylbenzene	N	6.6	μg/Kg	1		1/28/2005
m,p-X	ylene	N	6.6	μg/Kg	1		1/28/2005
Methy	lene chloride	N	6.6	μg/Kg	1		1/28/2005
n-Buty	lbenzene	N	6.6	μ g/K g	1		1/28/2005
n-Pro	pylbenzene	N	D 6.6	μg/Kg	1		1/28/2005
Napht	halene	N	6.6	μ g/ Kg	1		1/28/2005
o-Xyle	ene	N	6.6	μg/Kg	1		1/28/2005
sec-B	utylbenzene	N	6.6	μg/Kg	1		1/28/2005
Styrer	ne	N	D 6.6	μg/Kg	1		1/28/2005
tert-B	utylbenzene	N	D 6.6	μ g/ Kg	1		1/28/2005
Tetra	chloroethene	N	D 6.6	μ g/K g	1		1/28/2005
Tolue	ne	N	D 6.6	μ g/K g	1		1/28/2005
trans-	1,2-Dichloroethene	N	D 6.6	μ g/K g	1		1/28/2005
Trichle	oroethene	N	D 6.6	μg/Kg	1		1/28/2005
Trichi	orofluoromethane	N	D 6.6	μg/Kg	1		1/28/2005
Vinvl	chloride	N	D 6.6	иа/Ка	1		1/28/2005

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

(EPA 3550B)

EPA 8270C

(E. A 0000B)		E. A 0.			
QC Batch:	21085		PrepDate:	1/27/2005	Analyst: JWS
N	ID 3	30 μg/K	g 1		1/28/2005
N	ID 3	30 μg/K	g 1		1/28/2005
N	ID 3	30 μg/K	g 1		1/28/2005
N	ID 3	30 μg/K	g 1		1/28/2005
N	ID 3	30 μg/K	g 1		1/28/2005
	ID 3	30 μg/K	g 1		1/28/2005
	ID 3	30 μg/K	g 1		1/28/2005
	ID 3	30 µg/K	g 1		1/28/2005
	1D 3	30 μg/K	g 1		1/28/2005
	1D 3	30 μ g/ Κ	g 1		1/28/2005
	1D 3	30 μg/K	g 1		1/28/2005
		QC Batch: 21085 ND 3:	QC Batch: 21085 ND 330 µg/K ND 330 µg/K	QC Batch: 21085 PrepDate: ND 330 μg/Kg 1 ND 330 μg/Kg 1	QC Batch: 21085 PrepDate: 1/27/2005 ND 330 μg/Kg 1 ND 330 μg/Kg 1

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

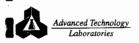
B - Analyte detected in the associated Method Blank DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 15 of 24 H-Samples exceding holding time



Date: 28-Jan-05

CLIENT:

Ninyo & Moore

Client Sample ID: T6-2-2

Lab Order:

073856

Project:

Lab ID:

Bloomfield II, 205372005

Collection Date: 1/27/2005

073856-004

Matrix: SOIL

Analyte

Result

QC Batch:

POL Oual Units

DF

Date Analyzed

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS (EPA 3550B)

RunID: MS6 050127B

21085

EPA 8270C

PrepDate:

Fluoranthene Fluorene

ND NΩ ND 330 330 330 μg/Kg μg/Kg μg/Kg 1/27/2005 1/28/2005

1/28/2005 1/28/2005 1/28/2005

Analyst: JWS

Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene

ND ND ND

330 330 330

μg/Kg μg/Kg μg/Kg

1/28/2005

1/28/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

DO - Surrogate Diluted Out

J - Analyte detected below quantitiation limits B - Analyte detected in the associated Method Blank S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 16 of 24

H-Samples exceding holding time Results are wet unless otherwise specified

CLIENT:

Ninyo & Moore

Client Sample ID: T7-1-4

Lab Order: Project:

073856

Bloomfield II, 205372005

Collection Date: 1/27/2005

Lab ID:

073856-005

Matrix: SOIL

Date: 28-Jan-05

Date Analyzed

1/28/2005

Analyte Result PQL Qual Units DF

59

ICD	METALS	
IUP	MICIALS	

Zinc

	(EPA	3050B)

EPA	6010B	1
-----	-------	---

	(EPA 3050B)		EPA 6010	<i>)</i> B		
RunID: ICP5_050128A	QC Batch:	21082		PrepDate:	1/27/2005	Analyst: RQ
Antimony	N	D 1.0	mg/Kg	1		1/28/2005
Arsenic	N	D 1.0	mg/Kg	1		1/28/2005
Barlum	11	0 1.0	mg/Kg	1		1/28/2005
Beryllium	N	D 1.0	mg/Kg	1		1/28/2005
Cadmium	N	D 1.0	mg/Kg	1		1/28/2005
Chromium	1	6 1.0	mg/Kg	1		1/28/2005
Cobalt	7.	.8 1.0	mg/Kg	1		1/28/2005
Copper	1	6 1.0	mg/Kg	1		1/28/2005
Lead	1	7 1.0	mg/Kg	1		1/28/2005
Molybdenum	1.	.9 1.0	mg/Kg	1		1/28/2005
Nickel	1	2 1.0	mg/Kg	1		1/28/2005
Selenium	N	D 1.0	mg/Kg	1		1/28/2005
Silver	N	D 1.0	mg/Kg	1		1/28/2005
Thatlium	N	D 1.0	mg/Kg	1		1/28/2005
Vanadium	2	25 1.0	mg/Kg	1		1/28/2005

HYDROCARBON CHAIN IDENTIFICATION

(LUFT)

EPA 8015B

mg/Kg

RunID: GC8_050127A	QC Batch: 21081		PrepDate:	1/27/2005 Analyst: CBR
T/R Hydrocarbons: >C32	30	10	mg/Kg 1	1/28/2005
T/R Hydrocarbons: C10-C12	ND	10	mg/Kg 1	1/28/2005
T/R Hydrocarbons: C13-C15	ND	10	mg/Kg 1	1/28/2005
T/R Hydrocarbons: C16-C22	13	10	mg/Kg 1	1/28/2005
T/R Hydrocarbons: C23-C32	47	10	mg/Kg 1	1/28/2005

1.0

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID:	GC2_050128A	QC Batch:	E05V\$02	6	F	PrepDate:	1/27/2005	Analyst: JV
GRO		•	1D	1.3	mg/Kg	1		1/28/2005

MERCURY BY COLD VAPOR TECHNIQUE

(EPA 7471)

EPA 7471A

RunID: AA1_050128A	QC Batch: 21084		PrepDate:	1/27/2005	Analyst: JT
Mercury	ND	0.10	mg/Kg	1	1/28/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Page 17 of 24 H-Samples exceding holding time DO - Surrogate Diluted Out



CLIENT:

Ninyo & Moore

Client Sample ID: T7-1-4

Lab Order: Project:

073856

Bloomfield II, 205372005

Lab ID:

Collection Date: 1/27/2005

073856-005

Matrix: SOIL

Analyte

Result

PQL Qual Units

DF

Date: 28-Jan-05

Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RuniD:	MS3_050127A	QC Batch:	R05VS020		PrepDate:	1/27/2005	Analyst: JPC
1,1,1,2	2-Tetrachloroethane	N	D :	5.5 μg/K	g 1		1/27/2005
1,1,1-1	Frichloroethane	N	D :	5.5 μg/K	g 1		1/27/2005
1,1,2,2	2-Tetrachloroethane	N	D :	5.5 µg/K	g 1		1/27/2005
1,1,2-1	Frichloroethane	N	D :	5.5 μg/K	g 1		1/27/2005
1,1-Did	chloroethane	N	D :	5.5 μg/K	g 1		1/27/2005
1,1-Did	chloroethene	N	D :	5.5 μg/K	g 1		1/27/2005
1,1-Did	chioropropene	N	D (5.5 μg/K	g 1		1/27/2005
1,2,3-1	Frichlorobenzene	N	D :	5.5 μg/K	g 1		1/27/2005
1,2,3-1	Frichloropropane	N	D :	5.5 µg/K	g 1		1/27/2005
1,2,4-1	Trichlorobenzene	N	D :	5.5 μg√K	g 1		1/27/2005
1,2,4-7	Frimethy/benzene	N	D (5.5 µg/K	g 1		1/27/2005
1,2-Dit	oromo-3-chloropropane	N	D	11 μg/K	g 1		1/27/2005
1,2-Dit	oromoethane	. N	D :	5.5 μg/K	g 1		1/27/2005
1,2-Dic	chlorobenzene	N	D :	5.5 μg/K	g 1		1/27/2005
1,2-Dic	chloroethane	N	D :	5.5 μg/K	g 1		1/27/2005
1,2-Dic	chloropropane	N	D (5.5 μg/K	g 1		1/27/2005
1,3,5-7	rimethylbenzene	N	D :	5.5 μg/K	g 1		1/27/2005
1,3-Dic	chlorobenzene	N	D t	5.5 µg/K	g 1		1/27/2005
1,3-Dic	chloropropane	N	D :	5.5 μg/K	g 1		1/27/2005
1,4-Did	chlorobenzene	N	D !	5.5 µg/K	g 1		1/27/2005
2,2-Dio	chloropropane	N		5.5 μg/K	g 1		1/27/2005
2-Chlo	rotoluene	N		5.5 μg/K	g 1		1/27/2005
4-Chlo	rotoluene	N	D :	5.5 µg/K	g 1		1/27/2005
4-Isopi	ropytoluene	N	D :	5.5 μg/K	g 1		1/27/2005
Benzei	ne	N	D :	5.5 μg/K	g 1		1/27/2005
Bromo	benzene	N	D :	5.5 μg/K	g 1		1/27/2005
Bromo	dichloromethane	N	D :	5.5 μg/K	g 1		1/27/2005
Bromo	form	N	D :	5.5 µg/K	g 1		1/27/2005
Bromo	methane	N	D :	5.5 μg/K	g 1		1/27/2005
Carbor	tetrachloride	N	D :	5.5 μ g/ Κ	g 1		1/27/2005
Chloro	benzene	N	D !	5.5 μg/K	g 1		1/27/2005
Chloro	ethane	N	D :	5.5 μg/K	g 1		1/27/2005
Chloro	form	N	D (5.5 μg/K	g 1		1/27/2005
Chloro	methane	N	D :	5.5 µg/K	g 1		1/27/2005
	-Dichloroethene	N	- '	5.5 µg/K			1/27/2005
cis-1,3	-Dichloropropene	N	D :	5.5 μg/K	g 1		1/27/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quanititation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

DO - Surrogate Diluted Out

H-Samples exceding holding time

Page 18 of 24

CLIENT:

Ninyo & Moore

Client Sample ID: T7-1-4

Lab Order:

073856

Project:

Bloomfield II, 205372005

Collection Date: 1/27/2005

Date: 28-Jan-05

Lab ID:

073856-005

Matrix: SOIL

PQL Qual Units Analyte Result

DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RuniD: MS3_050127A	QC Batch:	R05VS020		PrepDate: 1/27/2005	Analyst: JPC
Dibromochloromethane	· N	D 5.5	μg/Kg	1	1/27/2005
Dibromomethane	N	D 5.5	μg/Kg	1	1/27/2005
Dichlorodifluoromethane	N	D 5.5	μ g/K g	1	1/27/2005
Ethylbenzene	N	D 5.5	μg/Kg	1	1/27/2005
Hexachlorobutadiene	N	D 5.5	μg/Kg	1	1/27/2005
Isopropylbenzene	· N	D 5.5	μ g/K g	1	1/27/2005
m,p-Xylene	N	D 5.5	μg/Kg	1	1/27/2005
Methylene chloride	N	D 5,5	μg/Kg	1	1/27/2005
n-Butylbenzene	N	D 5.5	μ g /Kg	1	1/27/2005
n-Propylbenzene	N	D 5.5	μg/Kg	1	1/27/2005
Naphthalene	N	D 5.5	μg/Kg	1	1/27/2005
o-Xylene	N	D 5.5	μg/Kg	1	1/27/2005
sec-Butylbenzene	N	D 5.5	μg/Kg	1	1/27/2005
Styrene	N	D 5.5	µg/Kg	1	1/27/2005
tert-Butylbenzene	N	D 5.5	µg/Kg	1	1/27/2005
Tetrachloroethene	N	D 5.5	μg/Kg	1	1/27/2005
Toluene	N	D 5.5	μg/Kg	1	1/27/2005
trans-1,2-Dichloroethene	N	D 5.5	µg/Кg	1	1/27/2005
Trichloroethene	N	D 5.5	μg/Kg	1	1/27/2005
Trichlorofluoromethane	N	D 5.5	μg/Kg	1	1/27/2005
Vinyl chloride	N	D 5.5	μg/Kg	1	1/27/2005

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

(EPA 3550B)

EPA 8270C

RunID: MS6_050127B	QC Batch:	21085	1	PrepDate: 1/27	7/2005 Analyst: JWS
2-Methylnaphthalene	ND	1600	μg/Kg	5	1/28/2005
Acenaphthene	ND	1600	μg/Kg	5	1/28/2005
Acenaphthylene	ND	1600	μg/Kg	5	1/28/2005
Anthracene	ND	1600	µg/Kg	5	1/28/2005
Benzo(a)anthracene	ND	1600	μg/Kg	5	1/28/2005
Benzo(a)pyrene	ND	1600	μg/Kg	5	1/28/2005
Benzo(b)fluoranthene	ND	1600	μg/Kg	5	1/28/2005
Benzo(g,h,i)perylene	ND	1600	µg/Kg	5	1/28/2005
Benzo(k)fluoranthene	ND	1600	µg/Kg	5	1/28/2005
Chrysene	ND	1600	µg/Kg	5	1/28/2005
Dibenz(a,h)anthracene	ND	1600	µg/Kg	5	1/28/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 19 of 24 H-Samples exceding holding time



Date: 28-Jan-05

DF

Date Analyzed

1/28/2005

CLIENT:

Ninyo & Moore

Client Sample ID: T7-1-4

Lab Order:

073856

Project:

Bloomfield II, 205372005

Collection Date: 1/27/2005

Lab ID: Analyte

Pyrene

073856-005

Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
(20.00.00)

		(EPA 3550B)		EPA 827	70C			
RuniD:	MS6_050127B	QC Batch:	21085			PrepDate:	1/27/2005	Analyst: JWS
Fluora	nthene		ND	1600	μg/Kg	5		1/28/2005
Fluore	ne		ND	1600	μg/Kg	5		1/28/2005
Indend	о(1,2,3-сd)ругеле		ND	1600	μg/Kg	5		1/28/2005
Napht	halene		ND	1600	μg/Kg	5		1/28/2005
Phena	inthrene		ND	1600	ua/Ka	5		1/28/2005

1600

μg/Kg

Result

ND

POL Qual Units

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantititation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

E - Value above quantitation range

H-Samples exceding holding time

Page 20 of 24

CLIENT:

Ninyo & Moore

Date: 28-Jan-05

Lab Order:

073856

Client Sample ID: T7-2-4

HYDROCARBON CHAIN IDENTIFICATION

GASOLINE RANGE ORGANICS BY GC/FID

MERCURY BY COLD VAPOR TECHNIQUE

Project:

Bloomfield II, 205372005

Collection Date: 1/27/2005

Lab ID: . . . 073856-006

Matrix: SOIL

 A	Tary te	
	-	

Result

POL Qual Units

DE

1

1

1

1

1

1

1

1

1

1

1

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H-Samples exceding holding time

Date Analyzed

ICP METALS

(EPA 3050B)

EPA 6010B

RuniD:	ICP5_050128A
Antimo	-
Arseni	С
Barium	1
Berylli	um
Cadmi	um
Chrom	ium
Cobalt	
Coppe	r
Lond	

QC Batch: 21082 ND ND

1.0 ma/Ka

PrepDate:

1/27/2005 Analyst: RQ 1/28/2005

110 ND ND

1.6

14

ND

ND

ND

27

15

ND

ND

3.2

ND

21081

E05VS025

21084

1.0 1.0 1.0 1.0

mg/Kg mg/Kg ma/Ka mg/Kg 1/28/2005 1/28/2005

16 84 27

(LUFT)

QC Batch:

QC Batch:

(EPA 7471)

OC Batch

20

1.0 1.0 1.0

1.0

1.0

1.0

10

1.0

1.0

1.0

1.0

10

10

10

10

10

0.95

0.10

mg/Kg mg/Kg mg/Kg

mg/Kg

ma/Ka

mg/Kg

mg/Kg

ma/Ka

ma/Ka

mg/Kg

mg/Kg

EPA 8015B

mg/Kg

mg/Kg

mg/Kg

ma/Ka

mg/Kg

EPA 8015B(M)

mg/Kg

EPA 7471A

PrepDate:

PrepDate:

PrepDate:

1/27/2005

1/27/2005

1/27/2005

1/28/2005 1/28/2005 1/28/2005 1/28/2005 1/28/2005

1/28/2005

1/28/2005

1/28/2005

1/28/2005

1/28/2005

1/28/2005

1/28/2005 1/28/2005

Analyst: CBR

1/28/2005

1/28/2005

1/28/2005

1/28/2005

1/28/2005

Analyst: JV

1/27/2005

Analyst: JT

1/28/2005

Nickel

Molvbdenum Selenium Silver

RunID: GC8 050127A

T/R Hydrocarbons: >C32

T/R Hydrocarbons: C10-C12

T/R Hydrocarbons: C13-C15

T/R Hydrocarbons: C16-C22

T/R Hydrocarbons: C23-C32

GC2 050127A

RunID: AA1_050128A

Thallium Vanadium

Zinc

RuniD:

GRO

Mercury

Qualiflers:

Advanced Technology Laboratories

ND - Not Detected at the Reporting Limit

DO - Surrogate Diluted Out

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

23 of 45

Results are wet unless otherwise specified

Page 21 of 24

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT:

Ninyo & Moore

Client Sample ID: T7-2-4

Lab Order: Project:

073856

Bloomfield II, 205372005

Result

Collection Date: 1/27/2005

Date: 28-Jan-05

Lab ID:

073856-006

Matrix: SOIL

Analyte

PQL Qual Units

DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA	8260B

				LFA 0200D			
RunID: MS3_050127A	QC Batch:	R05	V\$020	Pre	Date:	1/27/2005	Analyst: JPC
1,1,1,2-Tetrachloroethane		ND	5.1	μg/Kg	1		1/27/2005
1,1,1-Trichloroethane		ND	5.1	μg/Kg	1		1/27/2005
1,1,2,2-Tetrachloroethane		ND	5.1	μg/Kg	1		1/27/2005
1,1,2-Trichloroethane		ND	5.1	μg/Kg	1		1/27/2005
1,1-Dichloroethane		ND	5.1	μg/Kg	1		1/27/2005
1,1-Dichloroethene		ND	5.1	μg/Kg	1		1/27/2005
1,1-Dichloropropene		ND	5.1	μg/Kg	1		1/27/2005
1,2,3-Trichlorobenzene		ND	5.1	μg/Kg	1		1/27/2005
1,2,3-Trichloropropane		ND	5.1	μg/Kg	1		1/27/2005
1,2,4-Trichlorobenzene		ND	5.1	μg/Kg	1		1/27/2005
1,2,4-Trimethylbenzene		31	5.1	μg/Kg	1		1/27/2005
1,2-Dibromo-3-chloropropane		ND	10	μg/Kg	1		1/27/2005
1,2-Dibromoethane		ND	5.1	μ g /Kg	1		1/27/2005
1,2-Dichlorobenzene		ND	5.1	μ g/ Kg	1		1/27/2005
1,2-Dichloroethane		ND	5.1	μg/Kg	1		1/27/2005
1,2-Dichloropropane		ND	5.1	μg/Kg	1		1/27/2005
1,3,5-Trimethylbenzene		12	5.1	μ g/K g	1		1/27/2005
1,3-Dichlorobenzene		ND	5.1	μ g/ Kg	1		1/27/2005
1,3-Dichloropropane		ND	5.1	µg/Кg	1		1/27/2005
1,4-Dichlorobenzene		ND	5.1	µg/Kg	1		1/27/2005
2,2-Dichloropropane		ND	5.1	µg/Kg	1		1/27/2005
2-Chiorotoluene		ND	5.1	μg/Kg	1		1/27/2005
4-Chiorotoluene		ND	5.1	μg/Kg	1		1/27/2005
4-Isopropyltoluene		ND	5.1	μg/Kg	1		1/27/2005
Benzene		23	5.1	μ g/ Kg	1		1/27/2005
Bromobenzene		ND	5.1	μg/Kg	1		1/27/2005
Bromodichloromethane		ND	5.1	μg/Kg	1		1/27/2005
Bromoform		ND	5.1	μg/Kg	1		1/27/2005
Bromomethane		ND	5.1	μg/Kg	1		1/27/2005
Carbon tetrachloride		ND	5.1	μ g /Kg	1		1/27/2005
Chlorobenzene		ND	5.1	μg/Kg	1		1/27/2005
Chloroethane		ND	5.1	μg/Kg	1		1/27/2005
Chloroform		ND	5.1	μg/Kg	1		1/27/2005
Chloromethane		ND	5.1	μ g/ Kg	1		1/27/2005
cis-1,2-Dichloroethene		ND	5.1	µ g/К g	1		1/27/2005
cis-1,3-Dichloropropene		ND	5.1	µg/Kg	1		1/27/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

E - Value above quantitation range

H-Samples exceding holding time

Page 22 of 24

CLIENT:

Ninyo & Moore

Client Sample ID: T7-2-4

Lab Order:

073856

Project:

Bloomfield II, 205372005

Collection Date: 1/27/2005

Lab ID:

073856-006

Matrix: SOIL

Date: 28-Jan-05

Analyte

Result

PQL Qual Units

DF

Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

F	P	A	R	2	ĸ	n	F

QC Batch:	R05VS02	:0	Pre	pDate:	1/27/2005	Analyst: JPC
	ID.	5.1	μg/Kg	1		1/27/2005
	4D	5.1	μg/Kg	1		1/27/2005
1	1D	5.1	μg/Kg	1		1/27/2005
1	1D	5.1	μg/Kg	1		1/27/2005
1	1D	5.1	μg/Kg	1		1/27/2005
1	1D	5.1	μg/Kg	1		1/27/2005
	75	5.1	μg/Kg	1		1/27/2005
1	1D	5.1	μg/Kg	1		1/27/2005
1	ND	5.1	μg/Kg	1		1/27/2005
1	ND	5.1	μg/Kg	1		1/27/2005
	14	5.1	μ g /Kg	1		1/27/2005
	25	5.1	μg/Kg	1		1/27/2005
1	ND.	5.1	μg/Kg	1		1/27/2005
1	ND.	5.1	µg/Кg	1		1/27/2005
	4D	5.1	μ g/К g	1		1/27/2005
1	ND	5.1	μg/Kg	1		1/27/2005
	16	5.1	μg/Kg	1		1/27/2005
	4D	5.1	µg⁄Kg	1		1/27/2005
	ND	5.1	μ g/ Kg	1		1/27/2005
	ND.	5.1	µg⁄Кg	1		1/27/2005
	ND	5.1	μg/Kg	1		1/27/2005
		QC Batch: R05VS02 ND	ND 5.1 14 5.1 25 5.1 ND 5.1	ND 5.1 µg/Kg	ND 5.1 μg/Kg 1	ND 5.1 μg/Kg 1

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

(EPA 3550B)

EPA 8270C

RunID: MS6_050127B	QC Batch:	21085			PrepDate:	1/27/2005	Analyst: JWS
2-Methylnaphthalene		ND	1600	μg/Kg	5		1/28/2005
Acenaphthene	1	ND	1600	μ g/Kg	5		1/28/2005
Acenaphthylene	1	ND	1600	μg/Kg	5		1/28/2005
Anthracene	1	ND	1600	μg/Kg	5		1/28/2005
Benzo(a)anthracene		ΝD	1600	μg/Kg	5		1/28/2005
Benzo(a)pyrene	1	ND	1600	μg/Kg	5		1/28/2005
Benzo(b)fluoranthene	1	ND	1600	μg/Kg	5		1/28/2005
Benzo(g,h,i)perylene		ND	1600	μg/Kg	5		1/28/2005
Benzo(k)fluoranthene	1	ND	1600	μg/Kg	5		1/28/2005
Chrysene	1	ND	1600	μg/Kg	5		1/28/2005
Dibenz(a,h)anthracene	1	ND	1600	μ g/ Kg	5		1/28/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H-Samples exceding holding time

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Date: 28-Jan-05

CLIENT:

Ninyo & Moore

Client Sample ID: T7-2-4

Lab Order:

073856

Project:

Bloomfield II, 205372005

Collection Date: 1/27/2005

Lab ID:

073856-006

Matrix: SOIL

Analyte

Result

POL Qual Units

EDA 92700

DF Date Analyzed

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

	(EPA 3550B)		EPA 02/00				
RunID: MS6_050127B	QC Batch:	21085	Pre	oDate:	1/27/2005	Analyst: JWS	
Fluoranthene	ND	1600	µg/Кg	5		1/28/2005	
Fluorene	ND	1600	µg∕Kg	5		1/28/2005	
Indeno(1,2,3-cd)pyrene	ND	1600	μ g/ Kg	5		1/28/2005	
Naphthalene	ND	1600	μ g /Kg	5		1/28/2005	
Phenanthrene	ND	1600	µg/Kg	5		1/28/2005	
Pyrene	ND	1600	µg/Кg	5		1/28/2005	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 24 of 24

H-Samples exceding holding time Results are wet unless otherwise specified



Date: 28-Jan-05

dvanced Techni

3275 Walnut Avenue

Signal Hill, CA 90755

Tel: 562 989-4045

Fax: 562 989-4040

CLIENT: Work Order: Project: Ninyo & Moore

073856

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MB-21082	SampType: MBLK	TestCode	: 6010_S	Units: mg/Kg		Prep Da	te: 1/27/20	05	Run ID: ICF	5_050128A	
Client ID: ZZZZZ	Batch ID: 21082	TestNo	EPA 6010B	(EPA 3050B)		Analysis Da	te: 1/28/20	05	SeqNo: 672	2252	
Analyte	Result	PQL	SPK value S	PK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	ND	1.0									

Sample ID: LCS-21082	SampType: LCS	TestCod	de: 6010_S	Units: mg/Kg		Prep Dat	e: 1/27/20	05	Run ID: ICF	5_050128A	
Client ID: 22222	Batch ID: 21082	Testh	No: EPA 6010B	(EPA 3050B)		Analysis Da	e: 1/28/20	05	SeqNo: 672	2253	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	49.33	2.0	50	0	98.7	80	120	0	0		
Arsenic	49.48	1.0	50	0	99	80	120	0	0		
Barium	50.07	1.0	50	0	100	80	120	0	0		
Beryllium	49.33	1.0	50	0	98.7	80	120	0	0		
Cadmium	49.58	1.0	50	0	99.2	80	120	0	0		
Chromium	49.83	1.0	50	0	99.7	80	120	0	0		
Cobalt	50.18	1.0	50	0	100	80	120	0	0		
Copper	50.02	2.0	50	0	100	80	120	0	0		

Qualiflers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Page 1 of 16



CLIENT:

Ninyo & Moore

Work Order: Project: 073856

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010 S

Sample ID: LCS-21082	SampType: LCS	TestCod	e: 6010_S	Units: mg/Kg		Prep Date	: 1/27/20	05	Run ID: ICP	5_050128A	
Client ID: ZZZZZ	Batch ID: 21082	TestN	lo: EPA 6010B	(EPA 3050B)		Analysis Date	: 1/28/20	105	SeqNo: 672	2253	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.56	1.0	50	0	99.1	80	120	0	0		
Molybdenum	49.8	1.0	50	0	99.6	80	120	0	0		
Nickel	49.11	1.0	50	0	98.2	80	120	0	0		
Selenium	47.52	1.0	50	0	95	80	120	0	0		
Silver	50.79	1.0	50	0	102	80	120	0	0		
Thallium	49.92	1.0	50	0	99.8	80	120	0	0		
Vanadium	50.05	1.0	50	0	100	80	120	0	0		
Zinc	49.71	1.0	50	0	99.4	80	120	0	0		
Sample ID: 073856-006GMS	SampType: MS	TestCod	le: 6010_S	Units: mg/Kg		Prep Date	: 1/27/20	105	Run ID: ICF	5_050128A	
Client ID: T7-2-4	Batch ID: 21082	TestN	lo: EPA 6010B	(EPA 3050B)		Analysis Date	: 1/28/20	05	SeqNo: 672	2260	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	77.21	1.0	125	0	61.8	23	118	0	0		
Arsenic	106.3	1.0	125	0	85	64	111	0	0		
Barlum	213.2	1.0	125	113.9	79.4	36	146	0	0		
Beryllium	101.8	1.0	125	0	81.5	50	120	0	0		
Cadmium	100.9	1.0	125	0	80.7	62	107	0	0		
Chromium	118.4	1.0	125	16.37	81.6	63	119	0	0		
Cobalt	110.6	1.0	125	8.425	81.8	63	111	0	0		
Copper	129.8	1.0	125	27.44	81.9	58	136	0	0		
Lead	115.4	1.0	125	19.97	76.4	47	125	0	0		
Molybdenum	106.7	1.0	125	1.567	84.1	63	116	0	0		
Nickel	112.4	1.0	125	14.41	78.4	57	116	0	0		
Selenium	100.3	1.0	125	0	80.2	47	118	0	0		
Silver	104.7	1.0	125	0	83.8	48	125	0	0		
Thallium	91.68	1,0	125	0	73.3	49	116	0	0		
Vanadium	132.6	1.0	125	26.8	84.6	65	122	. 0	0		
Zinc	155.2	1.0	125	71.88	66.7	36	140	0	0		

Qualiflers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Page 2 of 16



CLIENT:

Ninyo & Moore

Work Order:

073856

Project:

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 073856-006GMSD	SampType: MSD	TestCoo	de: 6010_S	Units: mg/Kg		Prep Da	te: 1/27/20	05	Run ID: ICE	5_050128A	
Client ID: T7-2-4	Batch ID: 21082	Testh	lo: EPA 60101	B (EPA 3050B)		Analysis Da	te: 1/28/20	05	SeqNo: 672	2261	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual -
Antimony	80.26	1.0	125	0	64.2	23	118	77.21	3.88	20	
Arsenic	107.6	1.0	125	0	86.1	64	111	106.3	1.26	20	
Barlum	290.9	1.0	125	113.9	142	36	146	213.2	30.8	20	R
Beryllium	101.8	1.0	125	0	81.4	50	120	101.8	0.0264	20	
Cadmium	99.08	1.0	125	0	79.3	62	107	100.9	1.78	20	
Chromium	120.1	1.0	125	16.37	83	63	119	118.4	1.45	20	
Cobalt	109.5	1.0	125	8.425	80.8	-63	111	110.6	1.06	20	
Copper	133.8	1.0	125	27.44	85.1	58	136	129.8	3.03	20	
Lead	114.9	1.0	125	19.97	75.9	47	125	115.4	0.478	20	
Molybdenum	106.9	1.0	125	1.567	84.3	63	116	106.7	0.193	20	
Nickel	. 113.1	1.0	125	14.41	78.9	57	116	112.4	0.652	20	
Selenium	101.3	1.0	125	0	81	47	118	100.3	0.984	20	
Silver	106.6	1.0	125	0	85.3	48	125	104.7	1.81	20	
Thallium	90.14	1.0	125	0	72.1	49	116	91.68	1.69	20	
Vanadium	136.2	1.0	125	26.8	87.6	65	122	132.6	2.73	20	
Zinc	157.9	1.0	125	71.88	68.8	36	140	155.2	1.74	20	

Qualifiers:

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

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3275 Walnut Avenue

CLIENT:

Ninyo & Moore

Work Order:

073856

Project: Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: MB-21084	SampType: MBLK	TestCode: 7471_S	Units: mg/Kg	Prep Date: 1/27/2005	Run ID: AA1_050128A
Client ID: ZZZZZ	Batch ID: 21084	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 1/28/2005	SeqNo: 672271
Analyte	Result	PQL SPK value SPI	K Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury	ND	0.10			
Sample ID: LCS-21084	SampType: LCS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 1/27/2005	Run ID: AA1_050128A
Client ID: ZZZZZ	Batch ID: 21084	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 1/28/2005	SeqNo: 672270
Analyte	Result	PQL SPK value SP	K Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury	1.896	0.10 2.08	0 .	91.2 80 120 0	0
Sample ID: 073856-006GMS	SampType: MS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 1/27/2005	Run iD: AA1_050128A
Client ID: T7-2-4	Batch ID: 21084	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 1/28/2005	SeqNo: 672268
Analyte	Result	PQL SPK value SP	K Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLImit Qual
Mercury	0.8399	0.10 0.83	0.04394	95.9 62 146 0	0
Sample ID: 073856-006GMSD	SampType: MSD	TestCode: 7471_S	Units: mg/Kg	Prep Date: 1/27/2005	Run ID: AA1_050128A
Client ID: 17-2-4	Batch ID: 21084	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 1/26/2005	SeqNo: 672269
Analyte	Result	PQL SPK value SP	K Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury	0.804	0.10 0.83	0.04394	91.6 62 146 0.8399	4.37 30

Qualiflers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Ninyo & Moore

Work Order:

073856

Project:

Bloomfield Π, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_G 5035P

Sample ID: E912705MB SampType: MBLK Batch ID: E05V9525 TestNo: EPA 8015B(M Analysis Date: 1/27/2005 SeqNo: 672224														
Analyte	Sample iD: E0	12705MB	SampType:	MBLK	TestCoo	e: 8015_S_0	50 Units: mg/Kg		Prep Dat	e:		Run ID: GC	2_050127A	
Sample ID: E012805MB SampType: MBLK TestCode: 8015_5_G 50 Units: mg/Kg Prep Date: Analysis Date: 1/28/2005 SeqNo: 672283 SampType: MBLK TestCode: 8015_5_G 50 Units: mg/Kg Prep Date: Analysis Date: 1/28/2005 SeqNo: 672283 Analysis Date: 1/28/2005 SeqNo: 672284 Analysis Date: 1/28/2005 SeqNo: 672384 Analysis Date: 1/28/2005 SeqNo:	Client ID: ZZ	7777	Batch ID:	E05VS025	TestN	lo: EPA 8015	B(M		Analysis Dat	e: 1/27/20	05	SeqNo: 672	2224	
Surr: Bromofluorobenzane (FID) 74.51 0 100 0 74.5 27 135 0 0	Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sample ID: E012805MB SampType: MBLK TestCode: 8015_S_G 50 Units: mg/Kg				ND	1.0									
Client ID: ZZZZZ	Surr: Bromo	fluorobenzene (FID)		74.51	0	100	0	74.5	27	135	0	0		
Analyte	Sample ID: E0	12805MB	SampType:	MBLK	TestCod	e: 8015_S_0	50 Units: mg/Kg		Prep Dat	e:		Run ID: GC	2_050128A	
GRO Surr: Bromofiluorobenzene (FID) ND 71.87 1.0 0 100 0 100 0 71.9 27 135 0 0 27 135 0 0 0 Sample ID: E012705LC SampType: LCS Client ID: ZZZZZ Batch ID: E05VS025 TestCode: 8015_S_G 50 Units: mg/Kg Prep Date:	Client ID: ZZ	7777	Batch ID:	E05VS026	Test	lo: EPA 8015	B(M		Analysis Dat	te: 1/28/20	005	SeqNo: 672	2293	
Surri: Bromofluorobenzene (FID) 71.87 0 100 0 71.9 27 135 0 0	Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Vai	%RPD	RPDLimit	Qual
Sample ID: E012705LC SampType: LCS Batch ID: E05VS025 TestNo: EPA 8015B(M Analysis Date: 1/27/2005 SeqNo: 672231				ND	1.0									
Client ID: ZZZZZ	Surr: Bromo	fluorobenzene (FID)		71.87	0	100	0	71.9	27	135	0	0		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit GRO Surr: Bromofluorobenzene (FID) 4.932 88.72 1.0 5 0 98.6 76 116 0<	Sample ID: E0	12705LC	SampType:	LCS	TestCod	le: 8015_S_G	50 Units: mg/Kg		Prep Dat	e:		Run ID: GC	2_050127A	
GRO Surn: Bromoftuorobenzene (FID) 88.72 0 100 0 88.7 27 135 0 0 0	Client ID: ZZ	7772	Batch ID:	E05VS025	Test	lo: EPA 8015	B(M		Analysis Dat	te: 1/27/20	005	SeqNo: 672	2231	
Sum: Bromofluorobenzene (FID) 88.72 0 100 0 88.7 27 135 0 0	Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sample D: E012805LC SampType: LCS TestCode: 8015_S_G 50 Units: mg/Kg Prep Date: Run D: GC2_050128A						-	=				_			
Client ID: ZZZZZ	Surr: Bromo	fluorobenzene (FID)		88.72	0	100	0	88.7	27	135	0	0		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit GRO 5.099 1.0 5 0 102 76 116 0 0 0 Sum: Bromoffuorobenzene (FID) 85.38 0 100 0 85.4 27 135 0 0 0 Sum: Bromoffuorobenzene (FID) 85.38 0 100 0 85.4 27 135 0 0 0 Sum: Bromoffuorobenzene (FID) 85.38 0 100 0 85.4 27 135 0 0 0 Sum: Bromoffuorobenzene (FID) 86.38 0 100 0 85.4 27 135 0 0 0 Sum: Bromoffuorobenzene (FID) 86.38 0 100 0 85.4 27 135 0 0 0 Sum: Bromoffuorobenzene (FID) 86.38 0 100 0 85.4 27 135 0 0 0 Sum: Bromoffuorobenzene (FID) 86.38 0 100 Sum: Bromoffuorobenzene (FID) 86.38	Sample ID: E0	12805LC	SampType:	LCS	TestCod	ie: 8015_S_0	50 Units: mg/Kg		Prep Dat	e:		Run ID: GC	2_050128A	
GRO	Client ID: ZZ	7777	Batch ID:	E05VS026	Test	lo: EPA 8015	B(M		Analysis Dat	te: 1/28/20	005	SeqNo: 67	2338	
Surn: Bromoffuorobenzene (FID) 85.38 0 100 0 85.4 27 135 0 0 Sample ID: 073831-001AMS SampType: MS TestCode: 8015_S_G 50 Units: mg/Kg Prep Date: Run ID: GC2_050127A Run ID: GC2_050127A Client ID: ZZZZZ Batch ID: E05VS025 TestNo: EPA 8015B(M Analysis Date: 1/27/2005 SeqNo: 672226 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit GRO 4.758 1.0 5 0 95.2 27 137 0 0 Qualifiers: ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank DO- Surrogate dilute out H - Sample exceeded holding time	Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sample ID: 073831-001AMS SampType: MS TestCode: 8015_S_G 50 Units: mg/Kg Prep Date: Run ID: GC2_050127A Client ID: ZZZZZ Batch ID: E05VS025 TestNo: EPA 8015B(M Analysis Date: 1/27/2005 SeqNo: 672226 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit GRO 4.758 1.0 5 0 95.2 27 137 0 0 0 Qualifilers: ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank DO- Surrogate dilute out H - Sample exceeded holding time	GRO			5.099	1.0	5	0	102		116	0	0		
Client ID: ZZZZZ Batch ID: E05V\$025 TestNo: EPA 8015B(M Analysis Date: 1/27/2005 SeqNo: 672226 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit GRO 4.758 1.0 5 0 95.2 27 137 0 0 Qualifiers: ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time	Sun: Bromo	fluorobenzene (FID)		85.38	0	100	0	85.4	27	135	0	0		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit GRO 4.758 1.0 5 0 95.2 27 137 0 0 Qualiflers: ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time	Sample ID: 07	3831-001AMS	SampType:	MS	TestCod	de: 8015_S_G	50 Units: mg/Kg		Prep Dat	e:		Run ID: GC	2_050127A	
GRO 4.758 1.0 5 0 95.2 27 137 0 0 Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time	Client ID: ZZ	777	Batch ID:	E05VS025	TestN	io: EPA 8015	B(M		Analysis Dat	te: 1/27/20	005	SeqNo: 67	2226	
Qualiflers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time	Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time	GRO			4.758	1.0	5	0	95.2	27	137	0	0		
	Qualiflers:	ND - Not Detecte	d at the Repo	orting Limit	S - St	oike Recovery	outside accepted recove	ry limits	DO-	Surrogate di	lute out			
P. P.P. Carlotte and Carlotte a		J - Analyte detect	ed below qua	ntitation limits	B - A	nalyte detected	in the associated Meth	od Blank	H-5	Sample excee	eded holding time			
R - RPD outside accepted recovery limits Calculatious are based on raw values Pag		R - RPD outside	accepted reco	very limits	Calcu	ilations are ba	ased on raw values						Page	e 5 of 16



CLIENT:

Ninyo & Moore

Work Order:

073856

Project:

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_G 5035P

Sample ID	: 073831-001AMS	SampType:	MS	TestCod	e: 8015_S_G	50 Units: mg/Kg		Prep Da	te:		Run ID: GC	2_050127A	
Client ID:	77777	Batch ID:	E05VS025	TestN	o: EPA 8015	В(М		Analysis Da	te: 1/27/20	005	SeqNo: 672	2226	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLImit	Quai
Sum: Br	omofluorobenzene (FiD)		88.99	0	100	0	89	27	135	0	0		
Sample ID	: E012805MB-MS	SampType:	MS	TestCod	e: 8015_S_G	50 Units: mg/Kg		Prep Da	te:		Run ID: GC	2_050128A	
Client ID:	27272	Batch ID:	E05VS026	TestN	o: EPA 8015	В(М		Analysis Da	te: 1/28/20	005	SeqNo: 672	2297	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO			5.218	1.0	5	0	104	27	137	0	0		
Sum: Br	omofluorobenzene (FID)		98.37	0	100	0	98.4	27	135	0	0		
Sample ID	: 073831-001AMSD	SampType:	MSD	TestCod	e: 8015_S_G	50 Units: mg/Kg		Prep Da	te:		Run ID: GC	2_050127A	
Client 1D:	77777	Batch ID:	E05VS025	TestN	o: EPA 8015	В(М		Analysis Da	te: 1/27/20	005	SeqNo: 672	2227	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO			4.762	1.0	5	0	95.2	27	137	4.758	0.0840	30	
Surr: Br	omofluorobenzene (FID)		90.49	0	100	0	90.5	27	135	0	0	0	
Sample ID	: E012805MB-MSD	SampType:	MSD	TestCod	e: 8015_S_G	50 Units: mg/Kg		Prep Da	te:		Run ID: GC	2_050128A	
Client ID:	77777	Batch ID:	E05VS026	TestN	o: EPA 8015	B(M		Analysis Da	te: 1/28/20	005	SeqNo: 672	2302	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
			4.83	1.0	5	0	96.6	27	137	5.218	7.72	30	
GRO			4.03	1.0									
	omofluorobenzene (FID)		85.45	0	100	0	85.5	27	135	0	0	0	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

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3275 Walnut Avenue

CLIENT:

Ninyo & Moore

Work Order: Project: 073856

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID: R050127MB1	SampType: MBLK	TestCod	de: 8260_S_5	035 Units: μg/Kg		Prep Da	te:		Run ID: MS	3_050127A	
Client ID: ZZZZZ	Batch ID: R05VS020	Testh	lo: EPA 8260	В		Analysis Da	te: 1/27/20	005	SeqNo: 672	2069	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	High L imit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichiorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	· ND	5.0									
4-Isopropyttoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									

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H - Sample exceeded holding time

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Ninyo & Moore

Work Order:

073856

Project: Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260 S 5035

Sample ID: R050127MB1	SampType: MBLK	TestCod	de: 8260_S_5	035 Units: μg/Kg		Prep Da	te:		Run ID: MS	3_050127A	
Client ID: ZZZZZ	Batch ID: R05VS020	Test	lo: EPA 8260	В		Analysis Da	te: 1/27/20	005	SeqNo: 672	2069	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
ds-1,2-Dichloroethene	ND	5.0									
ds-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachiorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
seo-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachioroethene	ND	5.0									
Toluene	· ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	48.78	5.0	50	0	97.6	61	164	0	0		
Surr: 4-Bromofluorobenzene	47.21	5.0	50	0	94.4	80	123	0	0		
Surr: Dibromofluoromethane	50.98	5.0	50	0	102	78	141	0	0		

Qualifiers:

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J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank DO- Surrogate dilute out

Calculations are based on raw values

H - Sample exceeded holding time



3275 Walnut Avenue

CLIENT:

Ninyo & Moore

Work Order:

073856

Project: B

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID: R050127MB1	SampType: MBLK	TestCode: 8260_S_5035 Units: μg/Kg TestNo: EPA 8260B				Prep Da	te:		Run ID: MS3_050127A		
Client ID: ZZZZZ	Batch ID: R05VS020	Test	No: EPA 8260	В		Analysis Da	te: 1/27/20	005	SeqNo: 67	2069	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	High⊔mit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	49.03	5.0	50	0	98.1	86	123	0	0		
Sample ID: R050128MB2	SampType: MBLK	TestCo	de: 8260_S_ 5	035 Units: µg/Kg		Prep Da	te:		Run ID: MS	3_050128A	
Client ID: ZZZZZ	Batch ID: R05VS021	Test	No: EPA 8260	В		Analysis Da	te: 1/28/26	005	SeqNo: 67:	2277	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLlmit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND ND	5.0									
1,2,3-Trichlorobenzene	ND	5,0									
1,2,3-Trichioropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	. ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-isopropyltoluene	ND	5.0									

Qualiflers:

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Ninyo & Moore

Work Order: 073856

Project: Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260 S 5035

Sample ID: R050128MB2 Client ID: ZZZZZ	SampType: MBLK Batch ID: R05VS021		de: 8260_S_5 No: EPA 8260	035 Units: μg/Kg B		Prep Da Analysis Da		005	Run iD: MS SeqNo: 672		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0					•				
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	· ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

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Ninyo & Moore

Work Order:

073856

Project:

Bloomfield II, 205372005

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

H - Sample exceeded holding time

TestCode: 8260_S_5035

Sample ID: R050128MB2	SampType: MBLK	TestCo	de: 8260_S_5	035 Units: µg/Kg		Prep Da	ite:		Run ID: MS	3_050128A	
Client ID: ZZZZZ	Batch ID: R05VS021	Testi	No: EPA 8260	В		Analysis Da	ite: 1/28/20	005	SeqNo: 672	2277	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	44.68	5.0	50	0,	89.4	61	164	0	0		
Surr: 4-Bromofluorobenzene	47.44	5.0	50	0	94.9	80	123	0	0		
Surr: Dibromofluoromethane	47.97	5.0	50	0	95.9	78	141	0	0		
Surr: Toluene-d8	49.21	5.0	50	0	98.4	86	123	0	0		
Sample ID: R050127LC1	SampType: LCS	TestCo	de: 8260_S_5	035 Units: μg/Kg		Prep Da	ite:		Run ID: MS	3_050127A	
Client ID: ZZZZZ	Batch ID: R05V\$020	Test	No: EPA 8260	В		Analysis Da	ite: 1/27/20	005	SeqNo: 672	2065	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	88.26	5.0	100	0	88.3	63	127	0	0		
Benzene	94.64	5.0	100	0	94.6	88	126	0	0		
Chlorobenzene	98.03	5.0	100	0	98	91	133	0	0		
Totuene	94.19	5.0	100	0	94.2	87	126	.0	0		
Trichloroethene	94.76	5.0	100	0	94.8	66	134	0	0		
Surr: 1,2-Dichloroethane-d4	46.42	5.0	50	0	92.6	61	164	0	0		
Surr: 4-Bromofluorobenzene	50.3	5.0	50	0	101	80	123	0	0		
Surr: Dibromofluoromethane	48.69	5.0	50	0	97.4	78	141	0	0		
Surr: Toluene-d8	50.69	5.0	50	0	101	86	123	0	0		
Sample ID: R050128LC1	SampType: LCS	TestCo	de: 8260_S_5	035 Units: µg/Kg		Prep Da	ite:		Run ID: MS	3_050126A	
Client ID: ZZZZZ	Batch ID: R05V\$021	Testi	No: EPA 8260	В		Analysis Da	te: 1/28/20	005	SeqNo: 67	2274	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	82.27	5.0	100	0	82.3	63	127	0	0		
Benzene	89.58	5.0	100	0	89.6	86	126	0	0		
Chlorobenzene	94.71	5.0	100	0	94.7	91	133	0	0		
Toluene	89.63	5.0	100	0	89.6	87	126	0	0		
Qualifiers: ND - Not Detec	cted at the Reporting Limit	S - S	pike Recovery o	utside accepted recove	ry limits	DO.	- Surrogate di	ilute out			

B - Analyte detected in the associated Method Blank

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Ninyo & Moore

SampType: LCS

Batch ID: R05VS021

Result

90.68

Work Order:

Analyte

Sample ID: R050128LC1

Client ID: ZZZZZ

Trichloroethene

073856

Project: Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT TestCode: 8260 S 5035

0

 Prep Date:
 Run ID: MS3_050128A

 Analysis Date:
 1/28/2005
 SeqNo: 672274

 LowLimit
 HighLimit
 RPD Ref Val
 %RPD
 RPDLimit
 Qual

O

Surr: 1,2-Dichloroethane-d4	45.43	5.0	50	0	90.9	61	164	0	0		
Surr: 4-Bromofluorobenzene	49.99	5.0	50	0	100	80	123	0	0		
Surr: Dibromofluoromethane	47.92	5.0	50	0	95.8	78	141	0	0		
Surr: Toluene-d8	49.97	5.0	50	0	99.9	86	123	0	0		
Sample ID: R050127MB1MS	SampType: MS	TestCo	de: 8260_\$_50	35 Units: µg/Kg		Prep Da	te:		Run ID: MS	3_050127A	
Client ID: ZZZZZ	Batch ID: R05VS020	Test	No: EPA 8260B	ı		Analysis Da	te: 1/27/20	05	SeqNo: 672	2067	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLImit	Qual
1,1-Dichloroethene	87.65	5.0	100	0	87.6	51	128	0	0		
Benzene	95.66	5.0	100	0	95.7	65	136	0	0		
Chlorobenzene	100.5	5.0	100	0	100	52	152	0	0		
Toluene	95.68	5.0	100	0	95.7	56	142	0	0		
Trichloroethene	96.16	5.0	100	0	96.2	54	155	0	0		
Surr: 1,2-Dichloroethane-d4	46.64	5.0	50	0	93.3	61	164	0	0		
Surr: 4-Bromofluorobenzene	50.21	5.0	50	0	100	80	123	0	0		
Surr: Dibromofluoromethane	48.5	5.0	50	0	97	78	141	0	0		
Surr: Toluene-d8	50.08	5.0	50	0	100	86	123	0	0		

0

90.7

86

134

TestCode: 8260 S 5035 Units: µg/Kg

100

SPK value SPK Ref Val

TestNo: EPA 8260B

5.0

Sample ID: R050128MB1MS	SampType: MS	TestCo	de: 8260_S_5	035 Units: µg/Kg		Prep Da	te:		Run ID: M\$3_050128A			
Client ID: 22222	Batch ID: R05VS021	Test	TestNo: EPA 8260B			Analysis Da	te: 1/28/20	005	SeqNo: 672275			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethene	90.1	5.0	100	0	90.1	51	128	0	0			
Benzene	101.7	5.0	100	0	102	65	136	0	0			
Chlorobenzene	104.4	5.0	100	0	104	52	152	0	0			
Toluene	101	5.0	100	0	101	56	142	0	0			
Trichloroethene	104.3	5.0	100	0	104	54	155	0	0			
Surr: 1,2-Dichloroethane-d4	42.65	5.0	50	0	85.3	61	164	0	0			

Qualifiers:

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Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Page 12 of 16

Fax: 562 989-4040

CLIENT:

Ninyo & Moore

Work Order:

073856

Project:

Bloomfield Π, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID: R050128MB1MS Client ID: ZZZZZ	SampType: MS Batch ID: R05VS021		de: 8260_S_5 do: EPA 8260	035 Units: µg/Kg B		Prep Da Analysis Da		05	Run ID: MS SeqNo: 672	_	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr. 4-Bromofluorobenzene	49.84	5.0	50	0	99.7	80	123	0	0		
Surr: Dibromofluoromethane	46.33	5.0	50	0	92.7	78	141	0	0		
Surr. Toluene-d8	50.48	5.0	50	0	101	86	123	0	0		
Sample ID: R050127MB1MSD	SampType: MSD	TestCod	de: 8260_S_5	035 Units: µg/Kg		Prep Da	te:		Run ID: MS	3_050127A	
Client ID: ZZZZZ	Batch ID: R05VS020	Testh	lo: EPA 8260	В		Analysis Da	te: 1/27/20	05	SeqNo: 672	2068	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	99.16	5.0	100	0	99.2	51	128	87.65	12.3	30	
Benzene	106.2	5.0	100	0	106	65	136	95.66	10.5	30	
Chlorobenzene	114.2	5.0	100	0	114	52	152	100.5	12.8	30	
Toluene	105.8	5.0	100	0	106	56	142	95.68	10.1	30	
Trichloroethene	107.5	5.0	100	0	108	54	155	96.16	11.1	30	
Surr: 1,2-Dichloroethane-d4	46.2	5.0	50	0	92.4	61	164	0	0	30	
Surr: 4-Bromofluorobenzene	51.18	5.0	50	0	102	80	123	0	0	30	
Surr: Dibromofluoromethane	49	5.0	50	0	98	78	141	0	0	30	
Surr: Toluene-d8	49.63	5.0	50	0	99.3	86	123	0	0	30	
Sample ID: R050128MB1MSD	SampType: MSD	TestCo	de: 8260_S_5	035 Units: μg/Kg		Prep Da	te:		Run ID: MS	3_050128A	
Client ID: ZZZZZ	Batch ID: R05VS021	Testh	No: EPA 8260	В		Analysis Da	te: 1/28/20	005	SeqNo: 67	2276	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLImit	Qual
1,1-Dichloroethene	94.93	5.0	100	0	94.9	51	128	90.1	5.22	30	
Benzene	106.5	5.0	100	0	107	65	136	101.7	4.66	30	
Chlorobenzene	111.6	5.0	100	0	112	52	152	104.4	6.64	30	
Toluene	105.8	5.0	100	0	106	56	142	101	4.63	30	
Trichloroethene	109.6	5.0	100	0	110	54	155	104.3	5.01	30	
Surr: 1,2-Dichloroethane-d4	43.82	5.0	50	0	87.6	61	164	0	0	30	
Surr: 4-Bromofluorobenzene	49.7	5.0	50	0	99.4	80	123	0	0	30	
Surr: Dibromofluoromethane	46.56	5.0	50	0	93.1	78	141	0	0	30	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Page 13 of 16



3275 Walnut Avenue

Signal Hill, CA 90755 Tel: 562 989-4045

Fax: 562 989-4040

CLIENT:

Ninyo & Moore

Work Order:

073856

Project: Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID: R050128MB1MSD	SampType: MSD	TestCod	de: 8260_S_5	035 Units: µg/Kg		Prep Da	te:		Run ID: MS	3_050128A	
Client ID: ZZZZZ	Batch ID: R05VS021	Test	No: EPA 8260	В		Analysis Da	te: 1/28/20	05	SeqNo: 672	2276	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	50.3	5.0	50	0	101	86	123	0	0	30	

Qualifiers:

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank Calculations are based on raw values DO- Surrogate dilute out

H - Sample exceeded holding time

Page 14 of 16



CLIENT:

Ninyo & Moore

Work Order: 073856 Project: Bloomfi

Bloomfield II, 205372005

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

H - Sample exceeded holding time

TestCode: 8270_S_FULL

Sample ID: MB-21085	SampType: MBLK	TestCod	le: 8270_S_F	UL Units: µg/Kg		Prep Date:	1/27/20	005	Run ID: MS	6_050127B	
Client ID: 22222	Batch ID: 21085	TestN	lo: EPA 8270 0	C (EPA 3550B)		Analysis Date:	1/27/20	005	SeqNo: 672	153	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	330									
Acenaphthene	ND	330									
Acenaphthylene	ND	330									
Anthracene	ND	330									
Benzo(a)anthracene	ND	330									
Benzo(a)pyrene	ND	330									
Benzo(b)fluoranthene	ND	330									
Benzo(g,h,i)perylene	ND	330									
Benzo(k)fluoranthene	ND	330									
Chrysene	ND	330									
Dibenz(a,h)anthracene	ND	330									
Fluoranthene	ND	330									
Fluorene	ND	330									
Indeno(1,2,3-cd)pyrene	ND	330									
Naphthalene	ND	330									
Phenanthrene	ND	330									
Pyrene	ND	330									
Surr: 1,2-Dichlorobenzene-d4	2821	0	3330	0	84.7	37	103	0	. 0		
Surr: 2-Fluorobiphenyl	3014	0	3330	0	90.5	37	113	0	0		
Surr: 4-Terphenyl-d14	3768	0	3330	0	113	46	123	0	0		
Surr: Nitrobenzene-d5	3222	0	3330	0	96.8	39	108	0	0		
Sample ID: LCS-21085	SampType: LCS	TestCod	le: 8270_S_F	UL Units: µg/Kg		Prep Date:	1/27/20	005	Run ID: MS	6_050127B	
Client ID: ZZZZZ	Batch ID: 21085	TestN	lo: EPA 8270	C (EPA 3550B)		Analysis Date:	1/28/20	005	SeqNo: 672	2154	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit F	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	2823	330	3330	0	84.8	64	95	0	0		
Pyrene	3159	330	3330	0	94.9	63	100	0	0		
Surr: 1,2-Dichlorobenzene-d4	2552	0	3330	0	76.6	37	103	0	0		
Surr: 2-Fluorobiphenyl	2789	0	3330	0	83.8	37	113	0	0		
Qualifiers: ND - Not Detec	ted at the Reporting Limit	S - S _I	ike Recovery o	utside accepted recov	ery limits	DO- S	urrogate di	ilute out			

B - Analyte detected in the associated Method Blank

Calculations are based on raw values



Fax: 562 989-4040

CLIENT:

Ninyo & Moore

Work Order:

073856

Project: Bloomfield II, 205372005 ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID: LCS-21085	SampType: LCS	TestCod	de: 8270_ \$_FU	L Units: μg/Kg		Prep Date	s: 1/27/20	05	Run ID: MS	6_050127B	
Client ID: ZZZZZ	Batch ID: 21085	TestN	lo: EPA 8270C	(EPA 3550B)		Analysis Date	e: 1/28/20	05	SeqNo: 67	2154	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	3271	0	3330	0	98.2	46	123	0	0		
Surr: Nitrobenzene-d5	3020	0	3330	0	90.7	39	108	0	0		
Sample ID: 073856-004GMS	SampType: MS	TestCod	de: 8270_S_FU	L Units: µg/Kg		Prep Date	: 1/27/20	05	Run ID: MS	6_050127B	
Client ID: T6-2-2	Batch ID: 21085	TestN	lo: EPA 8270C	(EPA 3550B)		Analysis Date	e: 1/28/20	05	SeqNo: 67	2155	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	3156	330	3330	0	94.8	64	95	0	0		
Pyrene	3252	330	3330	0	97.7	63	100	0	0		
Surr: 1,2-Dichlorobenzene-d4	2778	0	3330	0	83.4	37	103	0	0		
Surr: 2-Fluorabiphenyl	3141	0	3330	0	94.3	37	113	0	0		
Surr: 4-Terphenyl-d14	3673	0	3330	0	110	46	123	0	0		
Surr: Nitrobenzene-d5	3333	0	3330	0	100	39	108	0	0		
Sample ID: 073856-004GMSD	SampType: MSD	TestCoo	de: 8270_S_FU	L Units: µg/Kg		Prep Date	: 1/27/20	05	Run ID: MS	6_050127B	
Client ID: T6-2-2	Batch ID: 21065	TestN	lo: EPA 8270 C	(EPA 3550B)		Analysis Date	e: 1/28/20	05	SeqNo: 67	2156	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HìghLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	3037	330	3330	0	91.2	64	95	3156	3.84	30	
Pyrene	3169	330	3330	0	95.2	63	100	3252	2.59	30	
Surr: 1,2-Dichlorobenzene-d4	2671	0	3330	0	80.2	37	103	0	0	0	
Surr: 2-Fluorobiphenyl	3003	0	3330	0	90.2	37	113	0	0	0	
Surr: 4-Terphenyl-d14	3600	0	3330	0	108	46	123	0	0	0	
Surr: Nitrobenzene-d5	3203	0	3330	0	96.2	39	108	0	0	0	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Page 16 of 16



3275 Walnut Avenue

Signal Hill, CA 90755

Tel: 562 989-4045

Fax: 562 989-4040

Advanced Technology Laboratories

Date: 28-Jan-05

CLIENT: Work Order: Ninyo & Moore

073856

Project:

Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

TestCode: HC S SVOA

Sample ID: MB-21081 Client ID: ZZZZZ	SampType: MBLK Batch ID: 21081		de: HC_S_SV No: EPA 8015				te: 1/27/2005 te: 1/28/2005	Run ID: GC SeqNo: 67	_	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C12	ND	10					<u> </u>			
T/R Hydrocarbons: C13-C15	ND	10								
T/R Hydrocarbons: C16-C22	ND	10								
T/R Hydrocarbons: C23-C32	ND	10								
T/R Hydrocarbons: >C32	ND	10								

Qualiflers:

ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Page 1 of 1

CLIENT: Work Order: Project:

Ninyo & Moore

073856

Bloomfield II, 205372005

Date: 28-Jan-05

ANALYTICAL QC SUMMARY REPORT BatchID: 21081

Sample ID: LCS-21081	SampType: LCS	TestCode: 8015 S DM Units: mg/Kg	Prep Date: 1/27/2005	Run ID: GC8 050127A
Client ID: ZZZZZ	Batch ID: 21081	TestNo: EPA 8015B(M (LUFT)	Analysis Date: 1/28/2005	SeqNo: 672015
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Diesel	934.9	10 1000 0	93.5 73 125 0	0
Surr: p-Terphenyl	86.66	0 80 0	108 60 129 0	0
Sample ID: 073831-001AMS	SampType: MS	TestCode: 8015_S_DM Units: mg/Kg	Prep Date: 1/27/2005	Run ID: GC8_050127A
Client ID: ZZZZZ	Batch ID: 21081	TestNo: EPA 8015B(M (LUFT)	Analysis Date: 1/28/2005	SeqNo: 672016
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Diesel	960.9	10 1000 9.41	95.1 70 128 0	0
Surr. p-Terphenyl	88.12	0 80 0	110 60 129 0	0
Sample ID: 073831-001AMSD	SampType: MSD	TestCode: 8015_S_DM Units: mg/Kg	Prep Date: 1/27/2005	Run ID: GC8_050127A
Client ID: ZZZZZ	Batch ID: 21081	TestNo: EPA 8015B(M (LUFT)	Analysis Date: 1/28/2005	SeqNo: 672017
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Diesel	963.2	10 1000 9.41	95.4 70 128 960.9	0.245 30
Surr: p-Terphenyl	87.19	0 80 0	109 60 129 0	0 30
Sample ID: LCS-21081	SampType: LCS	TestCode: 8015_S_DSL Units: mg/Kg	Prep Date: 1/27/2005	Run ID: GC8_050127A
Client ID: ZZZZZ	Batch ID: 21081	TestNo: EPA 8015B(M (LUFT)	Analysis Date: 1/28/2005	SeqNo: 672192
Analyte	· Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Diesel	934.9	10 1000 0	93.5 73 125 0	0
Surr. p-Terphenyl	86.66	0 80 0	108 60 129 0	0
Sample iD: 073831-001AMS	SampType: MS	TestCode: 8015_S_DSL Units: mg/Kg	Prep Date: 1/27/2005	Run ID: GC8_050127A
Client ID: ZZZZZ	Batch ID: 21081	TestNo: EPA 8015B(M (LUFT)	Analysis Date: 1/28/2005	SeqNo: 672193
Analyte	Result	PQL SPK value SPK Ref Vai	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

- ND Not Detected at the Reporting Limit
- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- DO Surrogate diluted out

S - Spike/Surrogate outside limits due to matrix interference

H - Sample exceeded holding time

R - RPD outside accepted recovery limits

Calculations are based on raw values

Page 1 of 2



CLIENT:

Ninyo & Moore

Work Order:

Surr: p-Terphenyl

073856

Project: Bloomfield II, 205372005

ANALYTICAL QC SUMMARY REPORT

BatchID: 21081

Sample ID: 073831-001AMS	SampType: MS	TestCoo	de: 8015_S_ D	SL Units: mg/Kg		Prep Da	te: 1/27/20	105	Run ID: GC	8_050127A	
Client ID: ZZZZZ	Batch ID: 21081	TestN	to: EPA 8015	B(M (LUFT)		Analysis Da	te: 1/28/20	005	SeqNo: 672	2193	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	960.9	10	1000	9.41	95.1	70	128	0	0		
Surr: p-Terphenyl	88.12	0	80	0	110	60	129	0	0		
Sample ID: 073831-001AMSD	SampType: MSD	TestCoo	de: 8015_S_ D	SL Units: mg/Kg		Prep Da	te: 1/27/20	005	Run ID: GC	8_050127A	
Client ID: ZZZZZ	Batch ID: 21081	TestN	lo: EPA 8015	B(M (LUFT)		Analysis Da	te: 1/28/20	005	SeqNo: 672	2194	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	963.2	10	1000	9,41	95.4	70	128	960.9	0.245	30	

0

109

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

87.19

R - RPD outside accepted recovery limits

S - Spike/Surrogate outside limits due to matrix interference

B - Analyte detected in the associated Method Blank

80

Calculations are based on raw values

DO - Surrogate diluted out

H - Sample exceeded holding time

129

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APPENDIX F

DOCUMENTATION ASSOCIATED WITH THE HUMAN HEALTH SCREENING EVALUATION

H'		dimensionless	known				
ρ_{b}	1.85	cm3/gm	assumed				
$\theta_{\mathbf{w}}$	0.1	dimensionless	assumed		t		
K_d	18.37	gm/cm3	known				
θ_a	0.2	dimensionless	assumed				
K₀c	1837	gm/cm3	calc				
f_{oc}	0.01	dimensionless	assumed				
ω 	0.15		assumed				
Sample	C _{wet} (mg/kg)	C _t (mg/kg)	Depth (ft)	C _{sg} (mg/l)	C _{sq} (ug/m3)	Cancer	Non-cancer
POL2-25	3	3.53		-			1.40E-04
T1-1	9.3	10.94	2			1.80E-07	4.20E-03
T5-1	17	20.00	9			9.30E-08	2.10E-03

DATA ENTRY SHEE

DTSC / HERD Version 2.0-mod4; 8/23/04 Default for Uncleasified So

Reset to
Defaults

	Soil (Gas Concentration	on Data	Default for Unclassified Soil
ENTER	ENTER		ENTER	
	Soil		Soil	
Chemical	gas	OR	gas	
CAS No.	conc.,		conc.,	
(numbers only,	C,		Ce	
no dashes)	(μg/m ³)		(ppmv)	Chemical
91203	2.17E+01			Naphthalene

-	
П	MORE
П	al.
П	•

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
	below grade to bottom of enclosed space floor, L _F (15 or 200 cm)	Soil gas sampling depth below grade, L, (cm)	Average soil temperature, T _s (°C)	Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	User-defined vadose zone soil vapor permeability, k _v (cm²)
١	15	274.32	24	SC		

MORE ↓	l

ENTER	ENTER	ENTER	ENTER
Vandose zone	Vadose zone	Vadose zone	Vadose zone
scs	soil dry	soil total	soil water-filled
soil type	bulk density,	porosity,	porosity,
Lookup Soil	Pb ^A	n ^v	θ'
Parameters	(g/cm³)	(unitiess)	(cm³/cm³)
SC	1.65	0.3	0.1

ENTER
Average vapor
flow rate into bldg.
(Leave blank to calculate)
Q _{sod}
(L/m)
5

MOR	ŀΕ
+	

ENTER	ENTER	ENTER	ENTER
Averaging	Averaging		
time for	time for	Exposure	Exposure
carcinogens,	noncarcinogens,	duration,	frequency,
ATc	AT _{NC}	ED	EF
(yrs)	(yrs)	(yrs)	(days/yr)

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D _a (cm ² /s)	Diffusivity in water, D _w (cm ² /s)	Henry's law constant at reference temperature, H (atm-m³/mol)	Henry's law constant reference temperature, T _R (°C)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T _B (°K)	Critical temperature, T _C (°K)	Unit risk factor, URF (ug/m³) ⁻¹	Reference conc., RfC (mg/m³)	Molecular weight, MW (g/mol)
5.90E-02	7.50E-06	4.82E-04	25	10,373	491.14	748.40	3.4E-05	3.0E-03	128.18

INTERMEDIATE CALCULATIONS SHEET

Source- building separation, L _T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, Sia (cm³/cm³)	Vadose zone soil intrinsic permeability, k, (cm²)	Vadose zone soil relative air permeability, k _{ra} (cm ²)	Vadose zone soil effective vapor permeability, k, (cm²)	Floor- wall seam perimeter, X _{orack} (cm)	Soil gas conc. (µg/m³)	Bldg. ventilation rate, Q _{building} (cm ³ /s)
259.32	0.200	-0.093	1.78E-09	#NUM!	#NUMI	4,000	2.17E+01	3.39E+04
Area of enclosed space below grade, A _B (cm ²)	Crack- to-total area ratio, n (unitless)	Crack depth below grade, Z _{crack} (cm)	Enthalpy of vaporization at ave. soil temperature,	Henry's law constant at ave. soil temperature, H _{TS} (atm-m³/moi)	Henry's law constant at ave. soil temperature, H' _{TS} (unitless)	Vapor viscosity at ave. soil temperature, µ _{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D*** (cm²/s)	Diffusion path length, L _d (cm)
1.00E+06	5,00E-03	15	12,768	4.48E-04	1.84E-02	1.80E-04	3.09E-03	259.32
Convection path length, L _p (cm)	Source vapor coric., C _{source} (µg/m³)	Crack radius, r _{crack} (cm)	Average vapor flow rate into bldg , Q _{soil} (cm ³ /s)	Crack effective diffusion coefficient, D ^{crack} (cm²/s)	Area of crack, A _{crack} (cm²)	Exponent of equivalent foundation Peclet number, exp(Pe') (unitless)	Infinite source indoor attenuation coefficient, a (unitless)	infinite source bldg. conc., C _{building} (µg/m³)
15	2.17E+01	1.25	8.33E+01	3.09E-03	5.00E+03	2.87E+23	3.07E-04	6.67E-03

Unit	
risk	Reference
factor,	conc.,
URF	RfC
(µg/m³) ⁻¹	(mg/m ³)
3.4E-05	3.0E-03

END

DTSC / HERD Last Update: 11/1/03 DTSC Indoor Air Guidance Unclassified Soil Screening Model Screen_Level_Model_SoilGas_Unclassified_Soil.xls 1/31/2005 7:11 PM RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen
(unitless)

MESSAGE SUMMARY BELOW:

SG-SCREEN DTSC / HERD A Version 2.0; 04 Version 2.0-mod4: 8/23/04 Soil Gas Concentration Data Default for Unclassified Soil ENTER ENTER ENTER Reset to Soil Soil Defaults Chemical gas OR gas CAS No. conc.. conc., (numbers only, C. C, no dashes $(\mu g/m^3)$ (ppmv) Chemical 91203 1.19E+01 Naphthalene ENTER ENTER ENTER ENTER ENTER Depth MORE below grade Soil gas Vadose zone User-defined to bottom sampling Average SCS vadose zone of enclosed depth soil type soil vapor soil space floor. below grade, temperature, (used to estimate OR permeability, T_s soil vapor (°C) (cm²) (15 or 200 cm) (cm) permeability) 60.96 24 SC 15 ENTER ENTER ENTER ENTER ENTER Vadose zone MORE Vandose zone Vadose zone Vadose zone Average vapor 4 SCS soil total soil water-filled flow rate into bldg. soil dry soil type (Leave blank to calculate) bulk density, porosity, porosity, θ.,V Lookup Soll P. nV Q Parameters (cm³/cm³) (g/cm²) (L/m) (unitless) sc 1.85 0.3 0.1 MORE ENTER ENTER ENTER ENTER Averaging Averaging

Exposure time for time for Exposure carcinogens noncarcinogens, duration, frequency, ATC AT_{NC} ED EF (yrs) (yrs) (yrs) (days/yr) 30 350 70 30

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D _a (cm ² /s)	Diffusivity in water, D _w (cm ² /s)	Henry's law constant at reference temperature, H (atm-m³/mol)	Henry's law constant reference temperature, T _R (°C)	Enthalpy of vaporization at the normal boiling point,	Normal boiling point, T _B (°K)	Critical temperature, T _c (°K)	Unit risk factor, URF (µg/m³):1	Reference conc., RfC (mg/m³)	Molecular weight, MW (g/mol)
5.90E-02	7.50E-06	4.82E-04	25	10,373	491.14	748.40	3.4E-05	3.0E-03	128.18

INTERMEDIATE CALCULATIONS SHEET

Source- building separation,	Vadose zone soil air-filled porosity, θ_{\bullet}^{V}	Vadose zone effective total fluid saturation, S _{th}	Vadose zone soil intrinsic permeability, k	Vadose zone soil relative air permeability,	Vadose zone soil effective vapor permeability, k,	Floor- wali seam perimeter, X	Soil gas conc.	Bidg. ventilation rate,
(cm)	(cm ³ /cm ³)	(cm³/cm³)	(cm²)	k _{re} (cm²)	(cm²)	(cm)	(μg/m³)	(cm ³ /s)
(011)	(dili reili)	(one your /	(5)		(4)11.7	(3.11)	(μφ)	\u00e4mmm/\u00e4mm/
45.96	0.200	-0.093	1.78E-09	#NUMI	#NUM!	4,000	1,19E+01	3.39E+04
Area of enclosed space below grade, A _e (cm ²)	Crack- to-total area ratio, ຖ (unitless)	Crack depth below grade, Z _{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mot)	Henry's law constant at ave. soil temperature, H _{TS} (atm-m³/mol)	Henry's law constant at ave, soil temperature, H'TS (unitless)	Vapor viscosity at ave, soil temperature, μτs (g/cm-s)	Vadose zone effective diffusion coefficient, D ^{eff} v (cm ² /s)	Diffusion path length, L _d (cm)
1.00E+06	5.00E-03	15	12,768	4.48E-04	1.84E-02	1.80E-04	3.09E-03	45,96
Convection path length, Lp (cm)	Source vapor conc., C _{source} (µg/m³)	Crack radius, r _{crack} (cm)	Average vapor flow rate into bldg., $\Omega_{\rm toil}$ (cm ³ /s)	Crack effective diffusion coefficient, Draek (cm²/s)	Area of crack, A _{crack} (cm ²)	Exponent of equivalent foundation Peclet number, exp(Pe ^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., Coulding (µg/m³)
15	1.19E+01	1.25	8.33E+01	3.09E-03	5.00E+03	2.87E+23	1.10E-03	1.31E-02

Unit

risk Reference factor, conc., URF RfC (µg/m³)¹ (mg/m³)

3.4E-05 3.0E-03

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

incremental Hazard risk from quotient vapor from vapor intrusion to intrusion to indoor air, indoor air, carcinogen noncarcinogen (unitless) (unitless) 1.8E-07 4.2E-03

MESSAGE SUMMARY BELOW:

SG-SCREEN A Version 2.0; 04 Reset to

Defaults

Soil Gas Concentration Data

DTSC / HERD Version 2.0-mod4: 8/23/04 Default for Unclassified Soil

ENTER ENTER Soil Chemical gas CAS No. conc.. (numbers only, C.

ENTER Soil OR gas conc.. C, no dashes) (μg/m³) (ppmv) Chemical 3.83E+00 91203 Naphthalene

	ENTER	ENTER	ENTER	ENTER	_	ENTER
	Depth			1		
MORE	below grade	Soil gas		Vadose zone		User-defined
_ ↓	to bottom	sampling	Average	scs		vadose zone
	of enclosed	depth	soil	soil type		soil vapor
	space floor,	below grade,	temperature,	(used to estimate	OR	permeability,
	Le	٤.	Ts	soil vapor		k,
	(15 or 200 cm)	(cm)	(°C)	permeability)		(cm ²)
	15	762	24	SC		

MORE	ENTER Vandose zone SCS soil type	ENTER Vadose zone soil dry bulk density.	ENTER Vadose zone soil total porosity.	ENTER Vadose zone soil water-filled porosity,	
	Lookup Soil Parameters	Pb ^A (g/cm ³)	n ^v (unitless)	θω [∨] (cm³/cm³)	
	sc	1.85	0.3	0.1	

Average vapor flow rate into bldg. (Leave blank to calculate) Q (L/m)

ENTER

	time for	time for	Exposure	Exposure
	carcinogens,	noncarcinogens,	duration,	frequency,
	AT _C	AT _{NC}	ED	EF
	(yrs)	(yrs)	(yrs)	(days/yr)
•	ENTER Averaging time for	ENTER Averaging time for	ENTER Exposure	ENTER Exposure

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D _a (cm ² /s)	Diffusivity in water, D _w (cm ² /s)	Henry's iaw constant at reference temperature, H (atm-m³/mol)	Henry's law constant reference temperature, T _R (°C)	Enthalpy of vaporization at the normal boiling point, \(\Delta H_{v,b}\) (cat/mol)	Normal boiling point, T _B (°K)	Critical temperature, T _c (°K)	Unit risk factor, URF (µg/m³) ⁻¹	Reference conc., RfC (mg/m³)	Molecular weight, MW (g/mol)
5.90E-02	7.50E-06	4.82E-04	25	10,373	491.14	748.40	3.4E-05	3.0E-03	128.18

INTERMEDIATE CALCULATIONS SHEET

	Source- building separation,	Vadose zone soil air-filled porosity,	Vadose zone effective total fluid saturation,	Vadose zone soil intrinsic permeability,	Vadose zone soil relative air permeability,	Vadose zone soil effective vapor permeability,	Floor- wall seam perimeter,	Soíl gas	Bldg. ventilation rate,
	L _T	θ. Υ	S,	k,	k _{re}	k,	X _{ereck}	conc.	Q _{building}
	(cm)	(cm³/cm³)	(cm³/cm³)	(cm²)	(cm²)	(cm²)	(cm)	(μg/m³)	(cm³/s)
	747	0.200	-0.093	1.78E-09	#NUM!	#NUM!	4,000	3.83E+00	3.39E+04
	Area of enclosed space below grade, A _e	Crack- to-total area ratio,	Crack depth below grade, Zorack	Enthalpy of vaporization at ave. soil temperature, ΔH, TS	Henry's law constant at ave. soil temperature, H ₇₅	Henry's law constant at ave. soil temperature, H'Ts	Vapor viscosity at ave. soil temperature, µ _{Ts}	Vadose zone effective diffusion coefficient, D ^{eff}	Diffusion path length, L _d
	(cm²)	(unitless)	(cm)	(cal/mol)	(atm-m³/mol)	(unitless)	(g/cm-s)	(cm ² /s)	(cm)
•									
	1.00E+08	5.00E-03	15	12,768	4.48E-04	1.84E-02	1.80E-04	3.09E-03	747
	Convection path length,	Source vapor conc., Csource	Crack radius,	Average vapor flow rate into bldg.,	Crack effective diffusion coefficient, D ^{orack}	Area of crack, August	Exponent of equivalent foundation Peclet number, exp(Pe ^t)	Infinite source indoor attenuation coefficient, α	Infinite source bldg. conc., C _{building}
	(cm)	(μg/m ³)	(cm)	(cm ³ /s)	(cm ² /s)	(cm²)	(unitless)	(unitless)	(μg/m³)
•	(011)	(Aspini)	(5/11)			1-70-7	(=:::::::::::::::::::::::::::::::::::::	(2	
[15	3.83E+00	1.25	8.33E+01	3.09E-03	5.00E+03	2.87E+23	1.16E-04	4.45E-04

Unit
risk Reference
factor, conc.,
URF RtC
(μg/m³)*1 (mg/m³)

3.4E-05 3.0E-03

END

DTSC / HERD Last Update: 11/1/03 DTSC Indoor Air Guidance Unclassified Soil Screening Model Screen_Level_Model_SoilGas_Unclassified_Soil.xls 1/31/2005 7:13 PM RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from	Hazard quotient
vapor	from vapor
intrusion to	intrusion to
indoor air,	indoor air,
carcinogen	noncarcinogen
(unitless)	(unitless)
,	
6.2E-09	1.4E-04

MESSAGE SUMMARY BELOW:

END

Screen_Level_Model_SoilGas_Unclassified_Soil.xls

